



SEQUENCE LISTING

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<120> METHODS FOR VACCINE IDENTIFICATION AND COMPOSITIONS FOR
VACCINATION COMPRISING NUCLEIC ACID AND/OR POLYPEPTIDE
SEQUENCES OF THE HERPESVIRUS FAMILY

<130> MCRO:002US

<140> 10/669,161

<141> 2003-09-23

<150> 60/412,956

<151> 2002-09-23

<160> 116

<170> PatentIn Ver. 2.1

<210> 1

<211> 342

<212> DNA

<213> Herpes Virus

<400> 1

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<210> 2

<211> 114

<212> PRT

<213> Herpes Virus

<400> 2

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      20              25              30
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Gly Gly Pro Pro Pro Ser Cys Ser Leu Leu Leu Arg Gln Trp Leu His
    35              40              45
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Val Pro Glu Ser Ala Ser Asp Asp Asp Asp Asp Asp Asp Trp Pro Asp
    50              55              60
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Ser Pro Pro Pro Glu Pro Ala Pro Glu Ala Arg Pro Thr Ala Ala Ala
    65              70              75              80
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Asp Pro Ser His Pro Pro Ser Arg Pro Phe Arg Leu Pro Pro Arg Leu
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Ala Leu

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<212> DNA

<213> Herpes Virus

<400> 3

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<210> 4

<211> 248

<212> PRT

<213> Herpes Virus

<400> 4

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Pro Asn Ser Glu Pro Ala Val Arg Ser Ala Pro Ala Ala Ala Pro Pro
35 40 45

Pro Pro Pro Ala Gly Gly Pro Pro Pro Ser Cys Ser Leu Leu Leu Arg
50 55 60

Gln Trp Leu His Val Pro Glu Ser Ala Ser Asp Asp Asp Asp Asp Asp
65 70 75 80

Asp Trp Pro Asp Ser Pro Pro Pro Glu Pro Ala Pro Glu Ala Arg Pro
85 90 95

Thr Ala Ala Ala Pro Arg Pro Arg Pro Pro Pro Gly Val Gly Pro
100 105 110

Gly Gly Gly Ala Asp Pro Ser His Pro Pro Ser Arg Pro Phe Arg Leu
 115 120 125
 Pro Pro Arg Leu Ala Leu Arg Leu Arg Val Thr Ala Glu His Leu Ala
 130 135 140
 Arg Leu Arg Leu Arg Arg Ala Gly Gly Glu Gly Ala Pro Glu Pro Pro
 145 150 155 160
 Ala Thr Pro Ala Thr Pro Ala Thr Pro Ala Thr Pro Ala
 165 170 175
 Arg Val Arg Phe Ser Pro His Val Arg Val Arg His Leu Val Val Trp
 180 185 190
 Ala Ser Ala Ala Arg Leu Ala Arg Arg Gly Ser Trp Ala Arg Glu Arg
 195 200 205
 Ala Asp Arg Ala Arg Phe Arg Arg Arg Val Ala Glu Ala Glu Ala Val
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 Ile Gly Pro Cys Leu Gly Pro Glu Ala Arg Ala Arg Ala Leu Ala Arg
 225 230 235 240
 Gly Ala Gly Pro Ala Asn Ser Val
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<210> 5
 <211> 591
 <212> DNA
 <213> Herpes Virus

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 ataaactatg ctttgataga cggatatatt ttgcgttatc actgtcccgg attggacacg 180
 gtcttggtggg ataggcatgc ccagaaggca tattggggtta accccttttt atttgtggcg 240
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<210> 6
 <211> 197
 <212> PRT
 <213> Herpes Virus

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35	40	45
Ile Phe Leu Arg Tyr His Cys Pro Gly Leu Asp Thr Val Leu Trp Asp		
50	55	60
Arg His Ala Gln Lys Ala Tyr Trp Val Asn Pro Phe Leu Phe Val Ala		
65	70	75 80
Gly Phe Leu Glu Asp Leu Ser Tyr Pro Ala Phe Pro Ala Asn Thr Gln		
85	90	95
Glu Thr Glu Thr Arg Leu Ala Leu Tyr Lys Glu Ile Arg Gln Ala Leu		
100	105	110
Asp Ser Arg Lys Gln Ala Ala Ser His Thr Pro Val Lys Ala Gly Cys		
115	120	125
Val Asn Phe Asp Tyr Ser Arg Thr Arg Arg Cys Val Gly Arg Gln Asp		
130	135	140
Leu Gly Pro Thr Asn Gly Thr Ser Gly Arg Thr Pro Val Leu Pro Pro		
145	150	155 160
Asp Asp Glu Ala Gly Leu Gln Pro Lys Pro Leu Thr Thr Pro Pro Pro		
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Ile Ile Ala Thr Ser Asp Pro Thr Pro Arg Arg Asp Ala Ala Thr Lys		
180	185	190
Ser Arg Arg Arg Arg		
195		

<210> 7
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 <212> DNA
 <213> Herpes Virus

<400> 7

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acggtcttgt	gggataggca	tgcccagaag	gcatattggg	ttaaccctt	tttatttgtg	300
gcgggttttt	tggaggactt	gagttacccc	gcgtttcctg	ccaacaccca	ggaaacagaa	360
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gtagggcgac	aggatttggg	acctaccaac	ggaacgtctg	gacggacccc	ggttctgccg	540
ccggacgatg	aagcgggcct	gcagccgaag	cccctcacca	cgccgccgcc	catcatcgcc	600
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<210> 8

<211> 224
<212> PRT
<213> Herpes Virus

<400> 8

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Ala Arg Glu Val Gly Asp Ile Leu Lys Val Pro Cys Val Pro Leu Pro
35 40 45
Ser Asp Asp Leu Asp Trp Arg Tyr Glu Thr Pro Ser Ala Ile Asn Tyr
50 55 60
Ala Leu Ile Asp Gly Ile Phe Leu Arg Tyr His Cys Pro Gly Leu Asp
65 70 75 80
Thr Val Leu Trp Asp Arg His Ala Gln Lys Ala Tyr Trp Val Asn Pro
85 90 95
Phe Leu Phe Val Ala Gly Phe Leu Glu Asp Leu Ser Tyr Pro Ala Phe
100 105 110
Pro Ala Asn Thr Gln Glu Thr Glu Thr Arg Leu Ala Leu Tyr Lys Glu
115 120 125
Ile Arg Gln Ala Leu Asp Ser Arg Lys Gln Ala Ala Ser His Thr Pro
130 135 140
Val Lys Ala Gly Cys Val Asn Phe Asp Tyr Ser Arg Thr Arg Arg Cys
145 150 155 160
Val Gly Arg Gln Asp Leu Gly Pro Thr Asn Gly Thr Ser Gly Arg Thr
165 170 175
Pro Val Leu Pro Pro Asp Asp Glu Ala Gly Leu Gln Pro Lys Pro Leu
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Thr Thr Pro Pro Pro Ile Ile Ala Thr Ser Asp Pro Thr Pro Arg Arg
195 200 205
Asp Ala Ala Thr Lys Ser Arg Arg Arg Arg Pro His Ser Arg Arg Leu
210 215 220

<210> 9
<211> 1292
<212> DNA
<213> Herpes Virus

<400> 9

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<210> 10
 <211> 430
 <212> PRT
 <213> Herpes Virus

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<400> 10
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Asp Arg Pro Ala Val Pro Gly Arg Ala Glu Ala Phe Leu Asn Phe Thr
      20             25             30

Ser Met His Gly Val Gln Pro Ile Leu Lys Arg Ile Arg Glu Leu Ser
      35             40             45

Gln Gln Gln Leu Asp Gly Ala Gln Val Pro His Leu Gln Trp Phe Arg
      50             55             60

Asp Val Ala Ala Leu Glu Ser Pro Ala Gly Leu Pro Leu Arg Glu Phe
      65             70             75             80

Pro Phe Ala Val Tyr Leu Ile Thr Gly Asn Ala Gly Ser Gly Lys Ser
      85             90             95

Thr Cys Val Gln Thr Ile Asn Glu Val Leu Asp Cys Val Val Thr Gly
      100            105            110

Ala Thr Arg Ile Ala Ala Gln Asn Met Tyr Ala Lys Leu Ser Gly Ala
      115            120            125

Phe Leu Ser Arg Pro Ile Asn Thr Ile Phe His Glu Phe Gly Phe Arg
      130            135            140

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Ser	Asn	Pro	Ala	Ser	Leu	Glu	Asp	Leu	Gln	Arg	Arg	Asp	Leu	Thr	Tyr	165	170	175	
Tyr	Trp	Glu	Val	Ile	Leu	Asp	Leu	Thr	Lys	Arg	Ala	Leu	Ala	Ala	Ser	180	185	190	
Gly	Gly	Glu	Glu	Leu	Arg	Asn	Glu	Phe	Arg	Ala	Leu	Ala	Ala	Leu	Glu	195	200	205	
Arg	Thr	Leu	Gly	Leu	Ala	Glu	Gly	Ala	Leu	Thr	Arg	Leu	Ala	Pro	Ala	210	215	220	
Thr	His	Gly	Ala	Leu	Pro	Ala	Phe	Thr	Arg	Ser	Asn	Val	Ile	Val	Ile	225	230	235	240
Asp	Glu	Ala	Gly	Leu	Leu	Gly	Arg	His	Leu	Leu	Thr	Ala	Val	Val	Tyr	245	250	255	
Cys	Trp	Trp	Met	Ile	Asn	Ala	Leu	Tyr	His	Thr	Pro	Gln	Tyr	Ala	Ala	260	265	270	
Arg	Leu	Arg	Pro	Val	Leu	Val	Cys	Val	Gly	Ser	Pro	Thr	Gln	Thr	Ala	275	280	285	
Ser	Leu	Glu	Ser	Thr	Phe	Glu	His	Gln	Lys	Leu	Arg	Cys	Ser	Val	Arg	290	295	300	
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Glu	Tyr	Ala	Arg	Leu	Ser	Tyr	Ser	Trp	Ala	Ile	Phe	Ile	Asn	Asn	Lys	325	330	335	
Arg	Cys	Val	Glu	His	Glu	Phe	Gly	Asn	Leu	Met	Lys	Val	Leu	Glu	Tyr	340	345	350	
Gly	Leu	Pro	Ile	Thr	Glu	Glu	His	Met	Gln	Phe	Val	Asp	Arg	Phe	Val	355	360	365	
Val	Pro	Glu	Asn	Tyr	Ile	Thr	Asn	Pro	Ala	Asn	Leu	Pro	Gly	Trp	Thr	370	375	380	
Arg	Leu	Phe	Ser	Ser	His	Lys	Glu	Val	Ser	Ala	Tyr	Met	Ala	Lys	Leu	385	390	395	400
His	Ala	Tyr	Leu	Lys	Val	Thr	Arg	Glu	Gly	Glu	Phe	Val	Val	Phe	Thr	405	410	415	
Leu	Pro	Val	Leu	Thr	Phe	Val	Ser	Val	Lys	Glu	Phe	Asp	Glu			420	425	430	

<210> 11
<211> 2649

<212> DNA
<213> Herpes Virus

<400> 11

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<210> 12
<211> 882
<212> PRT
<213> Herpes Virus

<400> 12

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Ala	Glu	Ala	Phe	Leu	Asn	Phe	Thr	Ser	Met	His	Gly	Val	Gln	Pro	Ile	35	40	45	
Leu	Lys	Arg	Ile	Arg	Glu	Leu	Ser	Gln	Gln	Gln	Leu	Asp	Gly	Ala	Gln	50	55	60	
Val	Pro	His	Leu	Gln	Trp	Phe	Arg	Asp	Val	Ala	Ala	Leu	Glu	Ser	Pro	65	70	75	80
Ala	Gly	Leu	Pro	Leu	Arg	Glu	Phe	Pro	Phe	Ala	Val	Tyr	Leu	Ile	Thr	85	90	95	
Gly	Asn	Ala	Gly	Ser	Gly	Lys	Ser	Thr	Cys	Val	Gln	Thr	Ile	Asn	Glu	100	105	110	
Val	Leu	Asp	Cys	Val	Val	Thr	Gly	Ala	Thr	Arg	Ile	Ala	Ala	Gln	Asn	115	120	125	
Met	Tyr	Ala	Lys	Leu	Ser	Gly	Ala	Phe	Leu	Ser	Arg	Pro	Ile	Asn	Thr	130	135	140	
Ile	Phe	His	Glu	Phe	Gly	Phe	Arg	Gly	Asn	His	Val	Gln	Ala	Gln	Leu	145	150	155	160
Gly	Gln	Tyr	Pro	Tyr	Thr	Leu	Thr	Ser	Asn	Pro	Ala	Ser	Leu	Glu	Asp	165	170	175	
Leu	Gln	Arg	Arg	Asp	Leu	Thr	Tyr	Tyr	Trp	Glu	Val	Ile	Leu	Asp	Leu	180	185	190	
Thr	Lys	Arg	Ala	Leu	Ala	Ala	Ser	Gly	Gly	Glu	Glu	Leu	Arg	Asn	Glu	195	200	205	
Phe	Arg	Ala	Leu	Ala	Ala	Leu	Glu	Arg	Thr	Leu	Gly	Leu	Ala	Glu	Gly	210	215	220	
Ala	Leu	Thr	Arg	Leu	Ala	Pro	Ala	Thr	His	Gly	Ala	Leu	Pro	Ala	Phe	225	230	235	240
Thr	Arg	Ser	Asn	Val	Ile	Val	Ile	Asp	Glu	Ala	Gly	Leu	Leu	Gly	Arg	245	250	255	
His	Leu	Leu	Thr	Ala	Val	Val	Tyr	Cys	Trp	Trp	Met	Ile	Asn	Ala	Leu	260	265	270	
Tyr	His	Thr	Pro	Gln	Tyr	Ala	Ala	Arg	Leu	Arg	Pro	Val	Leu	Val	Cys	275	280	285	
Val	Gly	Ser	Pro	Thr	Gln	Thr	Ala	Ser	Leu	Glu	Ser	Thr	Phe	Glu	His	290	295	300	

Gln	Lys	Leu	Arg	Cys	Ser	Val	Arg	Gln	Ser	Glu	Asn	Val	Leu	Thr	Tyr	
305					310					315					320	
Leu	Ile	Cys	Asn	Arg	Thr	Leu	Arg	Glu	Tyr	Ala	Arg	Leu	Ser	Tyr	Ser	
			325						330					335		
Trp	Ala	Ile	Phe	Ile	Asn	Asn	Lys	Arg	Cys	Val	Glu	His	Glu	Phe	Gly	
		340						345					350			
Asn	Leu	Met	Lys	Val	Leu	Glu	Tyr	Gly	Leu	Pro	Ile	Thr	Glu	Glu	His	
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370						375					380					
Pro	Ala	Asn	Leu	Pro	Gly	Trp	Thr	Arg	Leu	Phe	Ser	Ser	His	Lys	Glu	
385					390					395					400	
Val	Ser	Ala	Tyr	Met	Ala	Lys	Leu	His	Ala	Tyr	Leu	Lys	Val	Thr	Arg	
			405						410					415		
Glu	Gly	Glu	Phe	Val	Val	Phe	Thr	Leu	Pro	Val	Leu	Thr	Phe	Val	Ser	
		420						425					430			
Val	Lys	Glu	Phe	Asp	Glu	Tyr	Arg	Arg	Leu	Thr	His	Gln	Pro	Gly	Leu	
	435						440					445				
Thr	Ile	Glu	Lys	Trp	Leu	Thr	Ala	Asn	Ala	Ser	Arg	Ile	Thr	Asn	Tyr	
450						455					460					
Ser	Gln	Ser	Gln	Asp	Gln	Asp	Ala	Gly	His	Met	Arg	Cys	Glu	Val	His	
465				470						475					480	
Ser	Lys	Gln	Gln	Leu	Val	Val	Ala	Arg	Asn	Asp	Val	Thr	Tyr	Val	Leu	
			485						490					495		
Asn	Ser	Gln	Ile	Ala	Val	Thr	Ala	Arg	Leu	Arg	Lys	Leu	Val	Phe	Gly	
		500						505					510			
Phe	Ser	Gly	Thr	Phe	Arg	Ala	Phe	Glu	Ala	Val	Leu	Arg	Asp	Asp	Ser	
	515					520						525				
Phe	Val	Lys	Thr	Gln	Gly	Glu	Thr	Ser	Val	Glu	Phe	Ala	Tyr	Arg	Phe	
530					535						540					
Leu	Ser	Arg	Leu	Ile	Phe	Ser	Gly	Leu	Ile	Ser	Phe	Tyr	Asn	Phe	Leu	
545				550						555					560	
Gln	Arg	Pro	Gly	Leu	Asp	Ala	Thr	Gln	Arg	Thr	Leu	Ala	Tyr	Ala	Arg	
			565						570					575		
Met	Gly	Glu	Leu	Thr	Ala	Glu	Ile	Leu	Ser	Leu	Arg	Pro	Lys	Ser	Ser	
		580						585					590			
Gly	Val	Pro	Thr	Gln	Ala	Ser	Val	Met	Ala	Asp	Ala	Gly	Ala	Pro	Gly	
	595						600					605				

Glu	Arg	Ala	Phe	Asp	Phe	Lys	Gln	Leu	Gly	Pro	Arg	Asp	Gly	Gly	Pro	610	615	620	
Asp	Asp	Phe	Pro	Asp	Asp	Asp	Leu	Asp	Val	Ile	Phe	Ala	Gly	Leu	Asp	625	630	635	640
Glu	Gln	Gln	Leu	Asp	Val	Phe	Tyr	Cys	His	Tyr	Thr	Pro	Gly	Glu	Pro	645	650	655	
Glu	Thr	Thr	Ala	Ala	Val	His	Thr	Gln	Phe	Ala	Leu	Leu	Lys	Arg	Ala	660	665	670	
Phe	Leu	Gly	Arg	Phe	Arg	Ile	Leu	Gln	Glu	Leu	Phe	Gly	Glu	Ala	Phe	675	680	685	
Glu	Val	Ala	Pro	Phe	Ser	Thr	Tyr	Val	Asp	Asn	Val	Ile	Phe	Arg	Gly	690	695	700	
Cys	Glu	Met	Leu	Thr	Gly	Ser	Pro	Arg	Gly	Gly	Leu	Met	Ser	Val	Ala	705	710	715	720
Leu	Gln	Thr	Asp	Asn	Tyr	Thr	Leu	Met	Gly	Tyr	Thr	Tyr	Ala	Arg	Val	725	730	735	
Phe	Ala	Phe	Ala	Asp	Glu	Leu	Arg	Arg	Arg	His	Ala	Thr	Ala	Asn	Val	740	745	750	
Ala	Glu	Leu	Leu	Glu	Glu	Ala	Pro	Leu	Pro	Tyr	Val	Val	Leu	Arg	Asp	755	760	765	
Gln	His	Gly	Phe	Met	Ser	Val	Val	Asn	Thr	Asn	Ile	Ser	Glu	Phe	Val	770	775	780	
Glu	Ser	Ile	Asp	Ser	Thr	Glu	Leu	Ala	Met	Ala	Ile	Asn	Ala	Asp	Tyr	785	790	795	800
Gly	Ile	Ser	Ser	Lys	Leu	Ala	Met	Thr	Ile	Thr	Arg	Ser	Gln	Gly	Leu	805	810	815	
Ser	Leu	Asp	Lys	Val	Ala	Ile	Cys	Phe	Thr	Pro	Gly	Asn	Leu	Arg	Leu	820	825	830	
Asn	Ser	Ala	Tyr	Val	Ala	Met	Ser	Arg	Thr	Thr	Ser	Ser	Glu	Phe	Leu	835	840	845	
Arg	Met	Asn	Leu	Asn	Pro	Leu	Arg	Glu	Arg	His	Glu	Arg	Asp	Asp	Val	850	855	860	
Ile	Ser	Glu	His	Ile	Leu	Ser	Ala	Leu	Arg	Asp	Pro	Asn	Val	Val	Ile	865	870	875	880
Val	Tyr																		

<210> 13
<211> 1011

<212> DNA
<213> Herpes Virus

<400> 13
caactgttag acccgcccgc ggccgctcggg cccgtctgga cggcgcggtt ttgcttcccc 60
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ccccacggcc ggacgggcct agcaagactg gacgcgctgg tggtagccgc tccctcagag 180
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<210> 14
<211> 337
<212> PRT
<213> Herpes Virus

<400> 14
Gln Leu Leu Asp Pro Pro Ala Ala Val Gly Pro Val Trp Thr Ala Arg
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Phe Cys Phe Pro Gly Leu Arg Ala Gln Leu Leu Ala Ala Leu Ala Asp
20 25 30
Leu Gly Gly Ser Gly Leu Ala Asp Pro His Gly Arg Thr Gly Leu Ala
35 40 45
Arg Leu Asp Ala Leu Val Val Ala Ala Pro Ser Glu Pro Trp Ala Gly
50 55 60
Ala Val Leu Glu Arg Leu Val Pro Asp Thr Cys Asn Ala Cys Pro Ala
65 70 75 80
Leu Arg Gln Leu Leu Gly Gly Val Met Ala Ala Val Cys Leu Gln Ile
85 90 95
Glu Glu Thr Ala Ser Ser Val Lys Phe Ala Val Cys Gly Gly Asp Gly
100 105 110
Gly Ala Phe Trp Gly Val Phe Asn Val Asp Pro Gln Asp Ala Asp Ala
115 120 125
Ala Ser Gly Val Ile Glu Asp Ala Arg Arg Ala Ile Glu Thr Ala Val
130 135 140
Gly Ala Val Leu Arg Ala Asn Ala Val Arg Leu Arg His Pro Leu Cys

145		150		155		160
Leu Ala Leu Glu Gly Val Tyr Thr His Ala Val Ala Trp Ser Gln Ala						
	165		170		175	
Gly Val Trp Phe Trp Asn Ser Arg Asp Asn Thr Asp His Leu Gly Gly						
	180		185		190	
Phe Pro Leu Arg Gly Pro Ala Tyr Thr Thr Ala Ala Gly Val Val Arg						
	195		200		205	
Asp Thr Leu Arg Arg Val Leu Gly Leu Thr Thr Ala Cys Val Pro Glu						
	210		215		220	
Glu Asp Ala Leu Thr Ala Arg Gly Leu Met Glu Asp Ala Cys Asp Arg						
	225		230		235	240
Leu Ile Leu Asp Ala Phe Asn Lys Arg Leu Asp Ala Glu Tyr Trp Ser						
	245		250		255	
Val Arg Val Ser Pro Phe Glu Ala Ser Asp Pro Leu Pro Pro Thr Ala						
	260		265		270	
Phe Arg Gly Gly Ala Leu Leu Asp Ala Glu His Tyr Trp Arg Arg Val						
	275		280		285	
Val Arg Val Cys Pro Gly Gly Gly Glu Ser Val Gly Val Pro Val Asp						
	290		295		300	
Leu Tyr Pro Arg Pro Leu Val Leu Pro Pro Val Asp Cys Ala His His						
	305		310		315	320
Leu Arg Glu Ile Leu Arg Glu Ile Glu Leu Val Phe Thr Gly Val Leu						
	325		330		335	

Ala

<210> 15
 <211> 2253
 <212> DNA
 <213> Herpes Virus

<400> 15
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 aacgccgcag gggagggtcg cgcgcgcttt gcggagggtct ccgtcaccgc gacggagctg 180
 cggtatttct acggctccgc ggacgtctcc gtccaggccg tcgtggcggc cgccgcgcgc 240
 gcgacgacgc cggccgcctc cccgctggag cccctggaga acccgactct gtggcgggcg 300
 ctgtacgcgt gcgtcctggc ggccctggag cgccagaccg ggccgggtggc cctgttcgcc 360
 ccgctgcgta tcggctcgga cccacgcacg ggactggtgg tgaaagttga gagagcgtcg 420
 tggggcccgcc cgccgcgcgc tcgcgcgcgt ctctgtgtcg cggaggccaa cattgacatc 480
 gaccctatgg ccctggcggc gcgcgttgcc gagcatcccg acgcgcggct ggcgtgggcg 540
 cgcctggcgg ccattcgaga cccccccag tgcgcgtccg ccgcttcgct gaccgttaac 600
 atcaccaccg gaaccgcgct atttgccgcg gaataccaga ctcttgcggt tccgccgatc 660
 aagaaggagg gcgcgttcgg ggacctggtc gaggtgtgcg aggtgggcct gcggccacgc 720

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gggcacccgc aacgagtcac ggcacgggtg ctgctgcccc gcgattacga ctactttgta 780
agcgccggcg agaagttctc cgcgccggcg ctcgtcgccc ttttcgggca gtggcataacc 840
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gaggtccggg ggggacccgt cccgtacttt gccgtcctgg ggtttccggg ttggcccacg 960
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gcctggcccc gcgtggcctc ggcggcagcc ggatgcctcc tgcccgcggg gcgggaggcg 1140
gtggcgcggt ggcacccgc cactaaaatc atccaactgt tagaccgcc cgcgccgctc 1200
gggcccgtct ggacggcgcg gttttgcttc cccgacttc gcgccagct cctggcgggc 1260
ctggccgacc tcggggggag cgggctggcg gacccccacg gccggacggg cctagcaaga 1320
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tccgggggtga tcgaggacgc ccggcggggc atcgagacgg ccgtgggagc cgtgcttagg 1620
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gcagtcgcct ggagccaggc gggagtgtgg ttctggaact cccgcgacaa cactgaccat 1740
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acgctgcgac gggtcctggg cctgacaacg gcatgcgtgc cggaggagga cgcactcacg 1860
gcccggggcc ttatggagga cgcctgcgac cgccttatct tggacgcgtt taataaacgg 1920
ttggacgcgg agtactggag cgttcgggtg tcccccttg aggccagcga ccccttgccc 1980
cccactgcct tccgcggcgg cgccttgctg gacgcagagc actactggcg gcgcgtcgtg 2040
cgtgtctgtc ccggaggcgg ggagtcggtc ggcgtccccg tcgatctata cccgcggccc 2100
cttgtgctcc ccccggtgga ctgcgctcat cacctgcgcg aaatcctgcg cgagattgag 2160
ttggtgttta ccggggtgct ggcgggagta tggggcgagg gggggaagtt tgtgtatccc 2220
tttgacgaca agatgtcgtt tctgtttgcc tga 2253

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<210> 16

<211> 750

<212> PRT

<213> Herpes Virus

<400> 16

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Met Asp Thr Ala Asp Ile Val Trp Val Glu Glu Ser Val Ser Ala Ile
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Thr Leu Tyr Ala Val Trp Leu Pro Pro Arg Ala Arg Glu Tyr Phe His
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Ala Leu Val Tyr Phe Val Cys Arg Asn Ala Ala Gly Glu Gly Arg Ala
          35                      40                      45

Arg Phe Ala Glu Val Ser Val Thr Ala Thr Glu Leu Arg Asp Phe Tyr
          50                      55                      60

Gly Ser Ala Asp Val Ser Val Gln Ala Val Val Ala Ala Ala Arg Ala
          65                      70                      75                      80

Ala Thr Thr Pro Ala Ala Ser Pro Leu Glu Pro Leu Glu Asn Pro Thr
          85                      90                      95

Leu Trp Arg Ala Leu Tyr Ala Cys Val Leu Ala Ala Leu Glu Arg Gln
          100                     105                     110

Thr Gly Pro Val Ala Leu Phe Ala Pro Leu Arg Ile Gly Ser Asp Pro
          115                     120                     125

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Arg	Thr	Gly	Leu	Val	Val	Lys	Val	Glu	Arg	Ala	Ser	Trp	Gly	Pro	Pro
130						135			140						
Ala	Ala	Pro	Arg	Ala	Ala	Leu	Leu	Val	Ala	Glu	Ala	Asn	Ile	Asp	Ile
145			150						155			160			
Asp	Pro	Met	Ala	Leu	Ala	Ala	Arg	Val	Ala	Glu	His	Pro	Asp	Ala	Arg
			165						170			175			
Leu	Ala	Trp	Ala	Arg	Leu	Ala	Ala	Ile	Arg	Asp	Thr	Pro	Gln	Cys	Ala
			180			185						190			
Ser	Ala	Ala	Ser	Leu	Thr	Val	Asn	Ile	Thr	Thr	Gly	Thr	Ala	Leu	Phe
195						200						205			
Ala	Arg	Glu	Tyr	Gln	Thr	Leu	Ala	Phe	Pro	Pro	Ile	Lys	Lys	Glu	Gly
210			215						220						
Ala	Phe	Gly	Asp	Leu	Val	Glu	Val	Cys	Glu	Val	Gly	Leu	Arg	Pro	Arg
225			230						235			240			
Gly	His	Pro	Gln	Arg	Val	Thr	Ala	Arg	Val	Leu	Leu	Pro	Arg	Asp	Tyr
			245						250			255			
Asp	Tyr	Phe	Val	Ser	Ala	Gly	Glu	Lys	Phe	Ser	Ala	Pro	Ala	Leu	Val
			260			265						270			
Ala	Leu	Phe	Arg	Gln	Trp	His	Thr	Thr	Val	His	Ala	Ala	Pro	Gly	Ala
275						280						285			
Leu	Ala	Pro	Val	Phe	Ala	Phe	Leu	Gly	Pro	Glu	Phe	Glu	Val	Arg	Gly
290			295						300						
Gly	Pro	Val	Pro	Tyr	Phe	Ala	Val	Leu	Gly	Phe	Pro	Gly	Trp	Pro	Thr
305			310						315			320			
Phe	Thr	Val	Pro	Ala	Thr	Ala	Glu	Ser	Ala	Arg	Asp	Leu	Val	Arg	Gly
			325						330			335			
Ala	Ala	Ala	Ala	Tyr	Ala	Ala	Leu	Leu	Gly	Ala	Trp	Pro	Ala	Val	Gly
340			345						350						
Ala	Arg	Val	Val	Leu	Pro	Pro	Arg	Ala	Trp	Pro	Gly	Val	Ala	Ser	Ala
355			360						365						
Ala	Ala	Gly	Cys	Leu	Leu	Pro	Ala	Val	Arg	Glu	Ala	Val	Ala	Arg	Trp
370			375						380						
His	Pro	Ala	Thr	Lys	Ile	Ile	Gln	Leu	Leu	Asp	Pro	Pro	Ala	Ala	Val
385			390						395			400			
Gly	Pro	Val	Trp	Thr	Ala	Arg	Phe	Cys	Phe	Pro	Gly	Leu	Arg	Ala	Gln
			405						410			415			
Leu	Leu	Ala	Ala	Leu	Ala	Asp	Leu	Gly	Gly	Ser	Gly	Leu	Ala	Asp	Pro
			420			425						430			

His	Gly	Arg	Thr	Gly	Leu	Ala	Arg	Leu	Asp	Ala	Leu	Val	Val	Ala	Ala	
		435					440					445				
Pro	Ser	Glu	Pro	Trp	Ala	Gly	Ala	Val	Leu	Glu	Arg	Leu	Val	Pro	Asp	
		450				455					460					
Thr	Cys	Asn	Ala	Cys	Pro	Ala	Leu	Arg	Gln	Leu	Leu	Gly	Gly	Val	Met	
465					470					475					480	
Ala	Ala	Val	Cys	Leu	Gln	Ile	Glu	Glu	Thr	Ala	Ser	Ser	Val	Lys	Phe	
				485					490						495	
Ala	Val	Cys	Gly	Gly	Asp	Gly	Gly	Ala	Phe	Trp	Gly	Val	Phe	Asn	Val	
			500					505					510			
Asp	Pro	Gln	Asp	Ala	Asp	Ala	Ala	Ser	Gly	Val	Ile	Glu	Asp	Ala	Arg	
		515					520					525				
Arg	Ala	Ile	Glu	Thr	Ala	Val	Gly	Ala	Val	Leu	Arg	Ala	Asn	Ala	Val	
		530				535					540					
Arg	Leu	Arg	His	Pro	Leu	Cys	Leu	Ala	Leu	Glu	Gly	Val	Tyr	Thr	His	
545					550					555					560	
Ala	Val	Ala	Trp	Ser	Gln	Ala	Gly	Val	Trp	Phe	Trp	Asn	Ser	Arg	Asp	
				565					570						575	
Asn	Thr	Asp	His	Leu	Gly	Gly	Phe	Pro	Leu	Arg	Gly	Pro	Ala	Tyr	Thr	
			580					585					590			
Thr	Ala	Ala	Gly	Val	Val	Arg	Asp	Thr	Leu	Arg	Arg	Val	Leu	Gly	Leu	
		595					600					605				
Thr	Thr	Ala	Cys	Val	Pro	Glu	Glu	Asp	Ala	Leu	Thr	Ala	Arg	Gly	Leu	
		610				615					620					
Met	Glu	Asp	Ala	Cys	Asp	Arg	Leu	Ile	Leu	Asp	Ala	Phe	Asn	Lys	Arg	
625					630					635					640	
Leu	Asp	Ala	Glu	Tyr	Trp	Ser	Val	Arg	Val	Ser	Pro	Phe	Glu	Ala	Ser	
				645					650					655		
Asp	Pro	Leu	Pro	Pro	Thr	Ala	Phe	Arg	Gly	Gly	Ala	Leu	Leu	Asp	Ala	
			660					665					670			
Glu	His	Tyr	Trp	Arg	Arg	Val	Val	Arg	Val	Cys	Pro	Gly	Gly	Gly	Glu	
		675					680					685				
Ser	Val	Gly	Val	Pro	Val	Asp	Leu	Tyr	Pro	Arg	Pro	Leu	Val	Leu	Pro	
		690				695					700					
Pro	Val	Asp	Cys	Ala	His	His	Leu	Arg	Glu	Ile	Leu	Arg	Glu	Ile	Glu	
705					710					715					720	
Leu	Val	Phe	Thr	Gly	Val	Leu	Ala	Gly	Val	Trp	Gly	Glu	Gly	Gly	Lys	
				725					730						735	

Phe Val Tyr Pro Phe Asp Asp Lys Met Ser Phe Leu Phe Ala
740 745 750

<210> 17
<211> 252
<212> DNA
<213> Herpes Virus

<400> 17
tgccgaaaca acgtcctcat caccgacgac ggggaggtcg tctcgctgac cgcccacgac 60
tttgacgtcg tggatatcga gtccgaagag gaaggtaatt tctacgtgcc cccggatatg 120
cgcggggtta cgcgggcccc ggggagacag cgctgcgtt catcggaacc cccctcgcg 180
cacactcacc ggcggacccc cggaggcgcc tgccccgcca cccagtttcc acccccatg 240
tccgatagcg aa 252

<210> 18
<211> 84
<212> PRT
<213> Herpes Virus

<400> 18
Cys Arg Asn Asn Val Leu Ile Thr Asp Asp Gly Glu Val Val Ser Leu
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Thr Ala His Asp Phe Asp Val Val Asp Ile Glu Ser Glu Glu Glu Gly
20 25 30
Asn Phe Tyr Val Pro Pro Asp Met Arg Gly Val Thr Arg Ala Pro Gly
35 40 45
Arg Gln Arg Leu Arg Ser Ser Asp Pro Pro Ser Arg His Thr His Arg
50 55 60
Arg Thr Pro Gly Gly Ala Cys Pro Ala Thr Gln Phe Pro Pro Pro Met
65 70 75 80
Ser Asp Ser Glu

<210> 19
<211> 291
<212> DNA
<213> Herpes Virus

<400> 19
atgggcctct cgttctccgg ggccccggccc tgctgctgcc gaaacaacgt cctcatcacc 60
gacgacgggg aggtcgtctc gctgaccgcc caccactttg acgtcgtgga tatcgagtcc 120
gaagaggaag gtaatttcta cgtgcccccg gatatgcgcg gggttacgcg ggccccgggg 180
agacagcgcc tgcgttcata ggaccccccc tcgcgccaca ctcaccggcg gacccccgga 240
ggcgctgcc ccgccacca gtttccaccc cccatgtccg atagcgaata a 291

<210> 20

<211> 96
<212> PRT
<213> Herpes Virus

<400> 20
Met Gly Leu Ser Phe Ser Gly Ala Arg Pro Cys Cys Cys Arg Asn Asn
1 5 10 15
Val Leu Ile Thr Asp Asp Gly Glu Val Val Ser Leu Thr Ala His Asp
20 25 30
Phe Asp Val Val Asp Ile Glu Ser Glu Glu Glu Gly Asn Phe Tyr Val
35 40 45
Pro Pro Asp Met Arg Gly Val Thr Arg Ala Pro Gly Arg Gln Arg Leu
50 55 60
Arg Ser Ser Asp Pro Pro Ser Arg His Thr His Arg Arg Thr Pro Gly
65 70 75 80
Gly Ala Cys Pro Ala Thr Gln Phe Pro Pro Pro Met Ser Asp Ser Glu
85 90 95

<210> 21
<211> 801
<212> DNA
<213> Herpes Virus

<400> 21
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ggggcctccg ggcgccccag cggccccctt ctccaggacg ccgccgtctc ccgtctctcc 180
cacgggtccc gccaccgatc cggcctccgc gagcggcttc gcgcgggact atcccgatgg 240
cgaatgagcc gctcgtctca tcgccgcgcg tcccccgaga cgcccgggtac ggcggccaaa 300
ctgaaccgcc cgccccctgc cagatcccag gcggcggttaa ccgcaccccc ctcgctcccc 360
tcgcacatcc tcaccctcac gcgcatacgc aagctatgca gcccctgtgt cgccatcaac 420
cccgccctac actacacgac cctcgagatc cccggggccc gaagcttcgg ggggtctggg 480
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cgacagatag tgttccccgc gtacgacatg gacctcggtg agtatatcgg ccaactggcg 720
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gcccgcgcgc ttgtgttttt a 801

<210> 22
<211> 267
<212> PRT
<213> Herpes Virus

<400> 22
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 35 40 45
 Pro Ser Leu Gln Asp Ala Ala Val Ser Arg Ser Ser His Gly Ser Arg
 50 55 60
 His Arg Ser Gly Leu Arg Glu Arg Leu Arg Ala Gly Leu Ser Arg Trp
 65 70 75 80
 Arg Met Ser Arg Ser Ser His Arg Arg Ala Ser Pro Glu Thr Pro Gly
 85 90 95
 Thr Ala Ala Lys Leu Asn Arg Pro Pro Leu Arg Arg Ser Gln Ala Ala
 100 105 110
 Leu Thr Ala Pro Pro Ser Ser Pro Ser His Ile Leu Thr Leu Thr Arg
 115 120 125
 Ile Arg Lys Leu Cys Ser Pro Val Phe Ala Ile Asn Pro Ala Leu His
 130 135 140
 Tyr Thr Thr Leu Glu Ile Pro Gly Ala Arg Ser Phe Gly Gly Ser Gly
 145 150 155 160
 Gly Tyr Gly Asp Val Gln Leu Ile Arg Glu His Lys Leu Ala Val Lys
 165 170 175
 Thr Ile Lys Glu Lys Glu Trp Phe Ala Val Glu Leu Ile Ala Thr Leu
 180 185 190
 Leu Val Gly Glu Cys Val Leu Arg Ala Gly Arg Thr His Asn Ile Arg
 195 200 205
 Gly Phe Ile Ala Pro Leu Gly Phe Ser Leu Gln Gln Arg Gln Ile Val
 210 215 220
 Phe Pro Ala Tyr Asp Met Asp Leu Gly Lys Tyr Ile Gly Gln Leu Ala
 225 230 235 240
 Ser Leu Arg Thr Thr Asn Pro Ser Val Ser Thr Ala Leu His Gln Cys
 245 250 255
 Phe Thr Glu Leu Ala Arg Ala Val Val Phe Leu
 260 265

<210> 23
 <211> 1557
 <212> DNA
 <213> Herpes Virus

<400> 23
 atggatgagt cccgcagaca gcgacctgct ggatcatgtgg cagctaacct cagcccccaa 60

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ggtgcacgcc aacggtcctt caaggattgg ctgcgcatcct acgtacactc caacccccac 120
ggggcctccg ggcgccccag cggccctctt ctccaggacg ccgccgtctc ccgctcctcc 180
cacgggtccc gccaccgatc cggcctccgc gagcgggttc gcgcgggact atcccgatgg 240
cgaatgagcc gctcgtctca tcgccgcgcg tcccccgaga cggccggtac ggcggccaaa 300
ctgaaccgcc cgcccctgcg cagatcccag gcggcggttaa ccgcaccccc ctcgctcccc 360
tcgcacatcc tcaccctcac gcgcatccgc aagctatgca gccccgtgtt cgccatcaac 420
cccgccctac actacacgac cctcgagatc cccggggccc gaagcttcgg ggggtctggg 480
ggatacggtg acgtccaact gattcgcgaa cataagcttg ccgttaagac cataaaggaa 540
aaggagtggg ttgccgttga gctcatcgcg accctgttgg tcggggagtg cgttctacgc 600
gccggccgca cccacaacat ccgcgggttc atcgcgcccc tcgggttctc gctgcaacaa 660
cgacagatag tggtccccgc gtacgacatg gacctcggtg agtatatcgg ccaactggcg 720
tccctgcgca caaaaaccc ctcggtctcg acggccctcc accagtgtt cagcgagctg 780
gcccgcgcgc ttgtgttttt aaacaccacc tgcgggatca gccacctgga tatcaagtgc 840
gccaacatcc tcgtcatgct gcggtcggac gccgtctcgc tccggcgggc cgtcctcgcc 900
gactttagcc tcgtcacctt caactccaac tccacgatcg cccgggggca gttttgcctc 960
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tcgccggact tcgccctggc cctgctcgcc tatcgtcgcg tgctgcaccc agccctgttt 1320
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cgccacctcc gcaatcccaa gattcggcgc gcgtttacgg atcgggtgat aaattaccag 1440
cacacacaca aggcgatact gtcgtcggtg gcgctgcctc ccgagcttaa gcctctcctg 1500
gtgctggtgt cccgcctgtg tcacaccaac ccgtgcgcgc ggcacgcgct gtcgtga 1557

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<210> 24
 <211> 518
 <212> PRT
 <213> Herpes Virus

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<400> 24
Met Asp Glu Ser Arg Arg Gln Arg Pro Ala Gly His Val Ala Ala Asn
  1                      5                      10                      15

Leu Ser Pro Gln Gly Ala Arg Gln Arg Ser Phe Lys Asp Trp Leu Ala
      20                      25                      30

Ser Tyr Val His Ser Asn Pro His Gly Ala Ser Gly Arg Pro Ser Gly
      35                      40                      45

Pro Ser Leu Gln Asp Ala Ala Val Ser Arg Ser Ser His Gly Ser Arg
      50                      55                      60

His Arg Ser Gly Leu Arg Glu Arg Leu Arg Ala Gly Leu Ser Arg Trp
      65                      70                      75                      80

Arg Met Ser Arg Ser Ser His Arg Arg Ala Ser Pro Glu Thr Pro Gly
      85                      90                      95

Thr Ala Ala Lys Leu Asn Arg Pro Pro Leu Arg Arg Ser Gln Ala Ala
      100                      105                      110

Leu Thr Ala Pro Pro Ser Ser Pro Ser His Ile Leu Thr Leu Thr Arg
      115                      120                      125

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Ile	Arg	Lys	Leu	Cys	Ser	Pro	Val	Phe	Ala	Ile	Asn	Pro	Ala	Leu	His	130	135	140	
Tyr	Thr	Thr	Leu	Glu	Ile	Pro	Gly	Ala	Arg	Ser	Phe	Gly	Gly	Ser	Gly	145	150	155	160
Gly	Tyr	Gly	Asp	Val	Gln	Leu	Ile	Arg	Glu	His	Lys	Leu	Ala	Val	Lys	165	170	175	
Thr	Ile	Lys	Glu	Lys	Glu	Trp	Phe	Ala	Val	Glu	Leu	Ile	Ala	Thr	Leu	180	185	190	
Leu	Val	Gly	Glu	Cys	Val	Leu	Arg	Ala	Gly	Arg	Thr	His	Asn	Ile	Arg	195	200	205	
Gly	Phe	Ile	Ala	Pro	Leu	Gly	Phe	Ser	Leu	Gln	Gln	Arg	Gln	Ile	Val	210	215	220	
Phe	Pro	Ala	Tyr	Asp	Met	Asp	Leu	Gly	Lys	Tyr	Ile	Gly	Gln	Leu	Ala	225	230	235	240
Ser	Leu	Arg	Thr	Thr	Asn	Pro	Ser	Val	Ser	Thr	Ala	Leu	His	Gln	Cys	245	250	255	
Phe	Thr	Glu	Leu	Ala	Arg	Ala	Val	Val	Phe	Leu	Asn	Thr	Thr	Cys	Gly	260	265	270	
Ile	Ser	His	Leu	Asp	Ile	Lys	Cys	Ala	Asn	Ile	Leu	Val	Met	Leu	Arg	275	280	285	
Ser	Asp	Ala	Val	Ser	Leu	Arg	Arg	Ala	Val	Leu	Ala	Asp	Phe	Ser	Leu	290	295	300	
Val	Thr	Leu	Asn	Ser	Asn	Ser	Thr	Ile	Ala	Arg	Gly	Gln	Phe	Cys	Leu	305	310	315	320
Gln	Glu	Pro	Asp	Leu	Lys	Ser	Pro	Arg	Met	Phe	Gly	Met	Pro	Thr	Ala	325	330	335	
Leu	Thr	Thr	Ala	Asn	Phe	His	Thr	Leu	Val	Gly	His	Gly	Tyr	Asn	Gln	340	345	350	
Pro	Pro	Glu	Leu	Leu	Val	Lys	Tyr	Leu	Asn	Asn	Glu	Arg	Ala	Glu	Phe	355	360	365	
Thr	Asn	His	Arg	Leu	Lys	His	Asp	Val	Gly	Leu	Ala	Val	Asp	Leu	Tyr	370	375	380	
Ala	Leu	Gly	Gln	Thr	Leu	Leu	Glu	Leu	Val	Val	Ser	Val	Tyr	Val	Ala	385	390	395	400
Pro	Ser	Leu	Gly	Val	Pro	Val	Thr	Arg	Phe	Pro	Gly	Tyr	Gln	Tyr	Phe	405	410	415	
Asn	Asn	Gln	Leu	Ser	Pro	Asp	Phe	Ala	Leu	Ala	Leu	Leu	Ala	Tyr	Arg	420	425	430	

Cys Val Leu His Pro Ala Leu Phe Val Asn Ser Ala Glu Thr Asn Thr
435 440 445

His Gly Leu Ala Tyr Asp Val Pro Glu Gly Ile Arg Arg His Leu Arg
450 455 460

Asn Pro Lys Ile Arg Arg Ala Phe Thr Asp Arg Cys Ile Asn Tyr Gln
465 470 475 480

His Thr His Lys Ala Ile Leu Ser Ser Val Ala Leu Pro Pro Glu Leu
485 490 495

Lys Pro Leu Leu Val Leu Val Ser Arg Leu Cys His Thr Asn Pro Cys
500 505 510

Ala Arg His Ala Leu Ser
515

<210> 25
<211> 312
<212> DNA
<213> Herpes Virus

<400> 25
cagcagttacc tggagcgcct cgagaaacag aggcaactta aggtgggccc ggacgagggc 60
tcggcggggc tcaccatggg cggcgatgcc ctacgagtgc cctttttaga tttcgcgacc 120
gagaccccca agcgcacca gaccgtgggc cctggcgctc ggacgctcca cgactgctgc 180
gagcactcgc cgctcttctc ggccgtggcg cggcggctgc tgtttaatag cctggtgccg 240
gcgcaactaa aggggcgtga tttcgggggc gaccacacgg ccaagctgga attcctggcc 300
cccgagttgg ta 312

<210> 26
<211> 104
<212> PRT
<213> Herpes Virus

<400> 26
Gln Gln Tyr Leu Glu Arg Leu Glu Lys Gln Arg Gln Leu Lys Val Gly
1 5 10 15

Ala Asp Glu Ala Ser Ala Gly Leu Thr Met Gly Gly Asp Ala Leu Arg
20 25 30

Val Pro Phe Leu Asp Phe Ala Thr Ala Thr Pro Lys Arg His Gln Thr
35 40 45

Val Val Pro Gly Val Gly Thr Leu His Asp Cys Cys Glu His Ser Pro
50 55 60

Leu Phe Ser Ala Val Ala Arg Arg Leu Leu Phe Asn Ser Leu Val Pro
65 70 75 80

Ala Gln Leu Lys Gly Arg Asp Phe Gly Gly Asp His Thr Ala Lys Leu
85 90 95

Glu Phe Leu Ala Pro Glu Leu Val
100

<210> 27
<211> 2208
<212> DNA
<213> Herpes Virus

<400> 27
atgttttggtc agcagctggc gtccgacgtc cagcagtacc tggagcgcct cgagaaacag 60
aggcaactta aggtggggcgc ggacgaggcg tcggcggggc tcaccatggg cggc gatgcc 120
ctacgagtgc cttttttaga tttcgcgacc gcgaccccca agcgcacca gaccgtggtc 180
cctggcgtcg ggacgtctca cgactgctgc gagcactcgc cgctcttctc ggccgtggcg 240
cggcggctgc tgtttaatag cctgggtgcg gcgcaactaa aggggctga tttcgggggc 300
gaccacacgg ccaagctgga attcctggcc cccgagttgg tacgggctgg ggcgcgactg 360
cggtttaagg agtgcgcgcc ggcgacgtg gtgcctcagc gtaacgccta ctatagcgtt 420
ctgaatacgt ttcaggccct ccaccgctcc gaagcctttc gccagctggg gcaactttgtg 480
cgggactttg cccagctgct caaaacctcc ttccgggcct ccagcctcac ggagaccacg 540
ggcccccca aaaaacgggc caaggtggac gtggccaccc acggccggac gtacggcacg 600
ctggagctgt tccaaaaaat gatccttatg cagccacct actttctggc cgccgtgctc 660
ctcggggacc acgcggagca ggtcaacacg ttcttgctgc tcgtgtttga gatccccctg 720
tttagcgacg cggcctgctg ccacttccgc cagcgcgcca ccgtgtttct cgcccccg 780
cgccacggca agacctggtt tctggtgccc ctcatcgcg tcgtcgtggc ctctttctcg 840
gggatcaaga tcggctacac ggcgacatc cgcaaggcga ccgagccggg gtttgaggag 900
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accatctcct tctcgtttcc ggacgggtcg cgcagtacca tcgtgtttgc ctccagccac 1020
aacacaaacg gaatccgagg ccaggacttt aacctgctct ttgtcgacga ggccaacttt 1080
attcgcccg atgcggtcca gacgattatg ggctttctca accaggccaa ctgcaagatt 1140
atcttcgtgt cgtccaccaa caccgggaag gccagtacga gctttttgta caacctccgc 1200
ggggccgcag acgagcttct caacgtggtg acctatatat gcgatgatca catgccgagg 1260
gtggtgacgc acacaaacgc cacggcctgt tcttggtata tcctcaacaa gcccgttttc 1320
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caggagatca tcggggggcca ggccaggag accggcgacg accggcccgt tctgaccaag 1440
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gcccccgatt tgtacgtgta cgtggatccc gcgttcacgg ccaacacccg agcctccggg 1560
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caccgcctac tggcctcgga gggggccgac gcgggctcgg gccccgagct tctcttctac 1860
cactgcgagc ctcccgggag cgcggtgctg taccctttt tctgctcaa caaacagaag 1920
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gagatcgttt ccgcgacggg gcgcctgcag accgaccgg tcgagtatct gctcgagcag 2040
ctaaataacc tcaccgaaac cgtctcccc aacactgacg tccgtacgta ttccggaaaa 2100
cggaacggcg cctcggatga ccttatggc gccgtcatta tggccatcta cctcgcggcc 2160
caggccggac ctccgcacac attcgtcct atcacacgcg tctcgtga 2208

<210> 28
<211> 735
<212> PRT
<213> Herpes Virus

<400> 28
Met Phe Gly Gln Gln Leu Ala Ser Asp Val Gln Gln Tyr Leu Glu Arg
1 5 10 15

Leu	Glu	Lys	Gln	Arg	Gln	Leu	Lys	Val	Gly	Ala	Asp	Glu	Ala	Ser	Ala		
			20					25					30				
Gly	Leu	Thr	Met	Gly	Gly	Asp	Ala	Leu	Arg	Val	Pro	Phe	Leu	Asp	Phe		
		35					40					45					
Ala	Thr	Ala	Thr	Pro	Lys	Arg	His	Gln	Thr	Val	Val	Pro	Gly	Val	Gly		
	50					55					60						
Thr	Leu	His	Asp	Cys	Cys	Glu	His	Ser	Pro	Leu	Phe	Ser	Ala	Val	Ala		
65					70					75					80		
Arg	Arg	Leu	Leu	Phe	Asn	Ser	Leu	Val	Pro	Ala	Gln	Leu	Lys	Gly	Arg		
				85					90					95			
Asp	Phe	Gly	Gly	Asp	His	Thr	Ala	Lys	Leu	Glu	Phe	Leu	Ala	Pro	Glu		
		100						105					110				
Leu	Val	Arg	Ala	Val	Ala	Arg	Leu	Arg	Phe	Lys	Glu	Cys	Ala	Pro	Ala		
	115						120					125					
Asp	Val	Val	Pro	Gln	Arg	Asn	Ala	Tyr	Tyr	Ser	Val	Leu	Asn	Thr	Phe		
	130					135					140						
Gln	Ala	Leu	His	Arg	Ser	Glu	Ala	Phe	Arg	Gln	Leu	Val	His	Phe	Val		
145					150					155					160		
Arg	Asp	Phe	Ala	Gln	Leu	Leu	Lys	Thr	Ser	Phe	Arg	Ala	Ser	Ser	Leu		
			165						170						175		
Thr	Glu	Thr	Thr	Gly	Pro	Pro	Lys	Lys	Arg	Ala	Lys	Val	Asp	Val	Ala		
		180						185					190				
Thr	His	Gly	Arg	Thr	Tyr	Gly	Thr	Leu	Glu	Leu	Phe	Gln	Lys	Met	Ile		
	195						200					205					
Leu	Met	His	Ala	Thr	Tyr	Phe	Leu	Ala	Ala	Val	Leu	Leu	Gly	Asp	His		
	210					215					220						
Ala	Glu	Gln	Val	Asn	Thr	Phe	Leu	Arg	Leu	Val	Phe	Glu	Ile	Pro	Leu		
225					230					235					240		
Phe	Ser	Asp	Ala	Ala	Val	Arg	His	Phe	Arg	Gln	Arg	Ala	Thr	Val	Phe		
			245						250					255			
Leu	Val	Pro	Arg	Arg	His	Gly	Lys	Thr	Trp	Phe	Leu	Val	Pro	Leu	Ile		
		260						265					270				
Ala	Leu	Ser	Leu	Ala	Ser	Phe	Arg	Gly	Ile	Lys	Ile	Gly	Tyr	Thr	Ala		
	275						280					285					
His	Ile	Arg	Lys	Ala	Thr	Glu	Pro	Val	Phe	Glu	Glu	Ile	Asp	Ala	Cys		
	290					295					300						
Leu	Arg	Gly	Trp	Phe	Gly	Ser	Ala	Arg	Val	Asp	His	Val	Lys	Gly	Glu		
305					310					315					320		

Thr	Ile	Ser	Phe	Ser	Phe	Pro	Asp	Gly	Ser	Arg	Ser	Thr	Ile	Val	Phe	
				325					330					335		
Ala	Ser	Ser	His	Asn	Thr	Asn	Gly	Ile	Arg	Gly	Gln	Asp	Phe	Asn	Leu	
			340					345					350			
Leu	Phe	Val	Asp	Glu	Ala	Asn	Phe	Ile	Arg	Pro	Asp	Ala	Val	Gln	Thr	
		355					360					365				
Ile	Met	Gly	Phe	Leu	Asn	Gln	Ala	Asn	Cys	Lys	Ile	Ile	Phe	Val	Ser	
	370					375					380					
Ser	Thr	Asn	Thr	Gly	Lys	Ala	Ser	Thr	Ser	Phe	Leu	Tyr	Asn	Leu	Arg	
385					390					395					400	
Gly	Ala	Ala	Asp	Glu	Leu	Leu	Asn	Val	Val	Thr	Tyr	Ile	Cys	Asp	Asp	
				405					410					415		
His	Met	Pro	Arg	Val	Val	Thr	His	Thr	Asn	Ala	Thr	Ala	Cys	Ser	Cys	
			420					425					430			
Tyr	Ile	Leu	Asn	Lys	Pro	Val	Phe	Ile	Thr	Met	Asp	Gly	Ala	Val	Arg	
	435						440					445				
Arg	Thr	Ala	Asp	Leu	Phe	Leu	Ala	Asp	Ser	Phe	Met	Gln	Glu	Ile	Ile	
	450					455					460					
Gly	Gly	Gln	Ala	Arg	Glu	Thr	Gly	Asp	Asp	Arg	Pro	Val	Leu	Thr	Lys	
465					470					475					480	
Ser	Ala	Gly	Glu	Arg	Phe	Leu	Leu	Tyr	Arg	Pro	Ser	Thr	Thr	Thr	Asn	
				485					490					495		
Ser	Gly	Leu	Met	Ala	Pro	Asp	Leu	Tyr	Val	Tyr	Val	Asp	Pro	Ala	Phe	
		500						505					510			
Thr	Ala	Asn	Thr	Arg	Ala	Ser	Gly	Thr	Gly	Val	Ala	Val	Val	Gly	Arg	
		515					520					525				
Tyr	Arg	Asp	Asp	Tyr	Ile	Ile	Phe	Ala	Leu	Glu	His	Phe	Phe	Leu	Arg	
	530					535					540					
Ala	Leu	Thr	Gly	Ser	Ala	Pro	Ala	Asp	Ile	Ala	Arg	Cys	Val	Val	His	
545					550					555					560	
Ser	Leu	Thr	Gln	Val	Leu	Ala	Leu	His	Pro	Gly	Ala	Phe	Arg	Gly	Val	
				565					570					575		
Arg	Val	Ala	Val	Glu	Gly	Asn	Ser	Ser	Gln	Asp	Ser	Ala	Val	Ala	Ile	
			580					585					590			
Ala	Thr	His	Val	His	Thr	Glu	Met	His	Arg	Leu	Leu	Ala	Ser	Glu	Gly	
		595					600					605				
Ala	Asp	Ala	Gly	Ser	Gly	Pro	Glu	Leu	Leu	Phe	Tyr	His	Cys	Glu	Pro	
	610					615					620					

Pro Gly Ser Ala Val Leu Tyr Pro Phe Phe Leu Leu Asn Lys Gln Lys
 625 630 635 640
 Thr Pro Ala Phe Glu His Phe Ile Lys Lys Phe Asn Ser Gly Gly Val
 645 650 655
 Met Ala Ser Gln Glu Ile Val Ser Ala Thr Val Arg Leu Gln Thr Asp
 660 665 670
 Pro Val Glu Tyr Leu Leu Glu Gln Leu Asn Asn Leu Thr Glu Thr Val
 675 680 685
 Ser Pro Asn Thr Asp Val Arg Thr Tyr Ser Gly Lys Arg Asn Gly Ala
 690 695 700
 Ser Asp Asp Leu Met Val Ala Val Ile Met Ala Ile Tyr Leu Ala Ala
 705 710 715 720
 Gln Ala Gly Pro Pro His Thr Phe Ala Pro Ile Thr Arg Val Ser
 725 730 735

<210> 29
 <211> 312
 <212> DNA
 <213> Herpes Virus

<400> 29
 aacgcactgt ggctctcctc cgctcgtaacg gagtcctgtc cctgcgtcgc cccgtgtctg 60
 tgggccaaga tggcccgatg taccctggcg gtccaggggg atgctagcct gtgtccgctt 120
 ctctttggcc atcccgatga tacggtcacc ctgctgcagg cccccgcgcg tccttgcatc 180
 acggaccgtc tgcaagaggt cgctcggggga cgggtgcggcg cggacaacat cccccgacc 240
 agcgccgggt ggcgctctgt tgtcttctct tcgtacatca gtcgcctatt tgctacgagt 300
 tgccccaccg tt 312

<210> 30
 <211> 104
 <212> PRT
 <213> Herpes Virus

<400> 30
 Asn Ala Leu Trp Leu Ser Ser Val Val Thr Glu Ser Cys Pro Cys Val
 1 5 10 15
 Ala Pro Cys Leu Trp Ala Lys Met Ala Gln Cys Thr Leu Ala Val Gln
 20 25 30
 Gly Asp Ala Ser Leu Cys Pro Leu Leu Phe Gly His Pro Val Asp Thr
 35 40 45
 Val Thr Leu Leu Gln Ala Pro Arg Arg Pro Cys Ile Thr Asp Arg Leu
 50 55 60
 Gln Glu Val Val Gly Gly Arg Cys Gly Ala Asp Asn Ile Pro Pro Thr
 65 70 75 80

Ser Ala Gly Trp Arg Leu Cys Val Phe Ser Ser Tyr Ile Ser Arg Leu
85 90 95

Phe Ala Thr Ser Cys Pro Thr Val
100

<210> 31
<211> 1122
<212> DNA
<213> Herpes Virus

<400> 31
atggcgcagc tgggaccccc ggggcccctg ggcgcgcctg gtcccccggg gaccttgccc 60
cggccgggatt cccggggccgg agctcgcggc acgcgcgata gagtcgacga cctgggggacg 120
gacgtcgact ctatcgcgcg cattgtcaac tccgtctttg tgtggcgcgt cgttcggggcg 180
gacgagcggc tcaagatctt tcggtgtcta acggctctca ccgagcctct gtgtcagggtg 240
gcccttctta acccagaccc cgggcgcgcg ctcttctgcg agatttttct gtatctgacg 300
cgccccaaag cgctgcgggt gccccgaac accttctttg ccctcttttt ctttaaccgc 360
gagcgcgcgt actgcgcgat cgtccacctc cggagcgtga cgcacccctt gaccccgctc 420
ctgtgcaccc tcacgttcgc acgcatacgg gcggccaccc ccccgaggga aacccccgac 480
ccaaccaccg aacagctcgc ggaggagcca gtggtcggcg agctggatgg cgcgtatctg 540
gtccccgcga agaccccccc ggagccgggc gcgtgctgcg ccttggggccc gggggcctgg 600
tggcacctcc ccagcggcca gatctactgc tgggccatgg acagcgacct ggggtcgctc 660
tgtccaccgg gaagcagggc ccgccatctg ggatggctcc tggccaggat caccaaccac 720
ccgggggggt gcgagtcctg cggcccgccg cccacatcg attccgcaa cgcactgtgg 780
ctctcctccg tcgtaacgga gtccctgtccc tgcgtcgccc cgtgtctgtg ggccaagatg 840
gcccagtgtg ccttggcggg ccagggggat gctagcctgt gtccgcttct ctttggccat 900
cccgtggata cggtcacccg gctgcaggcc ccccgccgct cttgcatcac ggaccgtctg 960
caagaggtcg tcgggggacg gtgcggcgcg gacaacatcc ccccgaccag cgcggggtgg 1020
cgctgtgtg tcttctcttc gtacatcagt cgctatttg ctacgagttg cccacccgtt 1080
gccccggcgg ttgcccgggc ctctcaagc gatcccgaa aa 1122

<210> 32
<211> 373
<212> PRT
<213> Herpes Virus

<400> 32
Met Ala Gln Leu Gly Pro Arg Arg Pro Leu Ala Pro Pro Gly Pro Pro
1 5 10 15
Gly Thr Leu Pro Arg Pro Asp Ser Arg Ala Gly Ala Arg Gly Thr Arg
20 25 30
Asp Arg Val Asp Asp Leu Gly Thr Asp Val Asp Ser Ile Ala Arg Ile
35 40 45
Val Asn Ser Val Phe Val Trp Arg Val Val Arg Ala Asp Glu Arg Leu
50 55 60
Lys Ile Phe Arg Cys Leu Thr Val Leu Thr Glu Pro Leu Cys Gln Val
65 70 75 80
Ala Leu Pro Asn Pro Asp Pro Gly Arg Ala Leu Phe Cys Glu Ile Phe

85					90					95					
Leu	Tyr	Leu	Thr	Arg	Pro	Lys	Ala	Leu	Arg	Leu	Pro	Pro	Asn	Thr	Phe
			100					105					110		
Phe	Ala	Leu	Phe	Phe	Phe	Asn	Arg	Glu	Arg	Arg	Tyr	Cys	Ala	Ile	Val
		115					120					125			
His	Leu	Arg	Ser	Val	Thr	His	Pro	Leu	Thr	Pro	Leu	Leu	Cys	Thr	Leu
		130					135					140			
Thr	Phe	Ala	Arg	Ile	Arg	Ala	Ala	Thr	Pro	Pro	Glu	Glu	Thr	Pro	Asp
145							150					155			160
Pro	Thr	Thr	Glu	Gln	Leu	Ala	Glu	Glu	Pro	Val	Val	Gly	Glu	Leu	Asp
				165					170					175	
Gly	Ala	Tyr	Leu	Val	Pro	Ala	Lys	Thr	Pro	Pro	Glu	Pro	Gly	Ala	Cys
			180					185					190		
Cys	Ala	Leu	Gly	Pro	Gly	Ala	Trp	Trp	His	Leu	Pro	Ser	Gly	Gln	Ile
		195					200					205			
Tyr	Cys	Trp	Ala	Met	Asp	Ser	Asp	Leu	Gly	Ser	Leu	Cys	Pro	Pro	Gly
		210					215					220			
Ser	Arg	Ala	Arg	His	Leu	Gly	Trp	Leu	Leu	Ala	Arg	Ile	Thr	Asn	His
225							230					235			240
Pro	Gly	Gly	Cys	Glu	Ser	Cys	Ala	Pro	Pro	Pro	His	Ile	Asp	Ser	Ala
				245					250					255	
Asn	Ala	Leu	Trp	Leu	Ser	Ser	Val	Val	Thr	Glu	Ser	Cys	Pro	Cys	Val
			260						265					270	
Ala	Pro	Cys	Leu	Trp	Ala	Lys	Met	Ala	Gln	Cys	Thr	Leu	Ala	Val	Gln
		275					280						285		
Gly	Asp	Ala	Ser	Leu	Cys	Pro	Leu	Leu	Phe	Gly	His	Pro	Val	Asp	Thr
		290					295					300			
Val	Thr	Leu	Leu	Gln	Ala	Pro	Arg	Arg	Pro	Cys	Ile	Thr	Asp	Arg	Leu
305							310					315			320
Gln	Glu	Val	Val	Gly	Gly	Arg	Cys	Gly	Ala	Asp	Asn	Ile	Pro	Pro	Thr
				325					330					335	
Ser	Ala	Gly	Trp	Arg	Leu	Cys	Val	Phe	Ser	Ser	Tyr	Ile	Ser	Arg	Leu
			340					345					350		
Phe	Ala	Thr	Ser	Cys	Pro	Thr	Val	Ala	Arg	Ala	Val	Ala	Arg	Ala	Ser
		355					360						365		
Ser	Ser	Asp	Pro	Glu											
			370												

<210> 33
 <211> 1425
 <212> DNA
 <213> Herpes Virus

<400> 33
 tgggttggggg aggtgaccag ggcgttcccc attctcctcg agaacctgat ggcgcgcgtc 60
 gaggggaccg cccccgacgc cttttttcac accgcgtatg ccctggccgt cctggcacac 120
 ctggggggac ggggcggtcg ggggcggcgg gtcgtcccg cggcgacga cctcccgcc 180
 cgctttgccc actccgacgg ccattacgtt ttgactact acagcacaag cggagacacg 240
 ctgcggttta acaatcgccc aatcgccgtg gcgatggatg gtgacgtcag taaacgcgag 300
 cagagtaaata gtcgcttcat ggaggccgtc ccctccacag cccacgcag ggtctgcgag 360
 caatacctgc ccggggaaaag ctacgcctac ctctgcctgg ggtttaatcg ccgcctctgt 420
 ggcatagttg tctttcccg cggttttgcg ttcaccatta acatcgcggc ctaccttagc 480
 ctctcgacc ccgtcgcgcg ggccgctgtc cttaggtttt gtcgcaagggt gtcgtccggg 540
 aacggccggt ctcgctagcg ggccgcttcc ccgggccacc tcgcccaccc actcctcccc 600
 gcgcgcttg ccccgccctc tggggtttgc cctccccccg ccccgccat ggcgcagctg 660
 ggaccccggc ggcccttggc gccgcctggt ccccgggga ccttgccccg gccggattcc 720
 cgggcccggag ctcgcgccac gcgcgataga gtcgacgacc tggggacgga cgtcgactct 780
 atcgcgcgca ttgtcaactc cgtctttgtg tggcgcgctg ttcgggcgga cgagcggctc 840
 aagatctttc ggtgtctaac ggtcctcacc gagcctctgt gtcaggtggc ccttcctaac 900
 ccagaccccg ggcgcgccct cttctgcgag atttttctgt atctgacgcg cccaaggcg 960
 ctgcggttgc cccgaacac cttctttgce ctctttttct ttaaccgga gcgcgctac 1020
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 acccccccg agccgggcgc gtgctgcgcc ttgggcccgg gggcctggtg gcacctcccc 1260
 agcggccaga tctactgctg ggccatggac agcgacctgg ggtcgctctg tccaccggga 1320
 agcagggccc gccatctggg atggctcctg gccaggatca ccaaccacc ggggggctgc 1380
 gagtctgcg ccccgccgce ccacatcgat tccgccaacg cactg 1425

<210> 34
 <211> 185
 <212> PRT
 <213> Herpes Virus

<400> 34
 Trp Leu Gly Glu Val Thr Arg Arg Phe Pro Ile Leu Leu Glu Asn Leu
 1 5 10 15
 Met Arg Ala Val Glu Gly Thr Ala Pro Asp Ala Phe Phe His Thr Ala
 20 25 30
 Tyr Ala Leu Ala Val Leu Ala His Leu Gly Gly Arg Gly Gly Arg Gly
 35 40 45
 Arg Arg Val Val Pro Leu Gly Asp Asp Leu Pro Ala Arg Phe Ala Asp
 50 55 60
 Ser Asp Gly His Tyr Val Phe Asp Tyr Tyr Ser Thr Ser Gly Asp Thr
 65 70 75 80
 Leu Arg Leu Asn Asn Arg Pro Ile Ala Val Ala Met Asp Gly Asp Val
 85 90 95
 Ser Lys Arg Glu Gln Ser Lys Cys Arg Phe Met Glu Ala Val Pro Ser

100 105 110
 Thr Ala Pro Arg Arg Val Cys Glu Gln Tyr Leu Pro Gly Glu Ser Tyr
 115 120 125
 Ala Tyr Leu Cys Leu Gly Phe Asn Arg Arg Leu Cys Gly Ile Val Val
 130 135 140
 Phe Pro Gly Gly Phe Ala Phe Thr Ile Asn Ile Ala Ala Tyr Leu Ser
 145 150 155 160
 Leu Ser Asp Pro Val Ala Arg Ala Ala Val Leu Arg Phe Cys Arg Lys
 165 170 175
 Val Ser Ser Gly Asn Gly Arg Ser Arg
 180 185

<210> 35
 <211> 1068
 <212> DNA
 <213> Herpes Virus

<400> 35
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 gtcacatcat ccagcgagtg cctggcgggc gcgggaatcc ctctggccgc cctgatgcgc 120
 ggccgccccg gactcgggac ggccgcaaac ttccagggtcg aaatccagac tcggggtcat 180
 gccaccggcg actgtacccc gtggtgcacg gcgtttgccg cctacgtgcc cgcggatgcg 240
 gtgggggagc ttctggcccc cgtcgtgccg gcacaccctg gcctccttcc gcgtgcgtcc 300
 agcgcggggg gggtgttcgt ctccctgccc gtggtgtgtg acgcgcaggg cgtctatgac 360
 ccgtacgcgc tggcggcgct gcgccttgcg tggggctcgg gggcgagctg tgcccgcgtg 420
 attctgttta gttacgacga gctcgtcccc cccaacacgc gctacgcggc cgacagcacg 480
 cgcacatgcg gcgtctgtcg gcatttgtgc cgctacgtcg ctctgcttgg cgccgccgcc 540
 ccgcccggcg cgaaggaggc tgcggccccc ctgtccatgg gtctggggga aagcgcgtcc 600
 ccgcgtccgc agcccttggc ccggcccccac gcggggggcg ccgcagaccc gcccatcgtc 660
 ggggcgtccg acccccccat ctccccggag gaggcagctga cggcccccg cggcgacacg 720
 accgcggccc aggacgtgtc catcgcacag gagaacgagg agatcctcgc gttggttcac 780
 cgggcagtg caggacgtcac ccgcgcgcc ccgggtccgag cgcggaccgg gcgtgcggcc 840
 tgtggcggtt catcgggggt acgccagggc gccctgggtc accaggccgt cagcgggggc 900
 gccatggggg cggtgacgc agatgcgggt ctggcggggtc tggagcccc cggcgggggc 960
 cgctttgtgg cccagcgccc ccacgggccc gggggcgagg acatcctgaa cgacgttcta 1020
 acccttacct ctggtaccgc aaagccgcgg tcgctggtcg agtggttg 1068

<210> 36
 <211> 356
 <212> PRT
 <213> Herpes Virus

<400> 36
 Ala Asn Glu Val Gln Thr Ile Ser Ala Thr Ala Arg Val Gly Pro Arg
 1 5 10 15
 Ser Leu Val His Val Ile Ile Ser Ser Glu Cys Leu Ala Ala Ala Gly
 20 25 30
 Ile Pro Leu Ala Ala Leu Met Arg Gly Arg Pro Gly Leu Gly Thr Ala

35					40					45						
Ala	Asn	Phe	Gln	Val	Glu	Ile	Gln	Thr	Arg	Ala	His	Ala	Thr	Gly	Asp	
50					55					60						
Cys	Thr	Pro	Trp	Cys	Thr	Ala	Phe	Ala	Ala	Tyr	Val	Pro	Ala	Asp	Ala	
65					70					75					80	
Val	Gly	Glu	Leu	Leu	Ala	Pro	Val	Val	Pro	Ala	His	Pro	Gly	Leu	Leu	
85					90					95						
Pro	Arg	Ala	Ser	Ser	Ala	Gly	Gly	Leu	Phe	Val	Ser	Leu	Pro	Val	Val	
100					105					110						
Cys	Asp	Ala	Gln	Gly	Val	Tyr	Asp	Pro	Tyr	Ala	Val	Ala	Ala	Leu	Arg	
115					120					125						
Leu	Ala	Trp	Gly	Ser	Gly	Ala	Ser	Cys	Ala	Arg	Val	Ile	Leu	Phe	Ser	
130					135					140						
Tyr	Asp	Glu	Leu	Val	Pro	Pro	Asn	Thr	Arg	Tyr	Ala	Ala	Asp	Ser	Thr	
145					150					155					160	
Arg	Ile	Met	Arg	Val	Cys	Arg	His	Leu	Cys	Arg	Tyr	Val	Ala	Leu	Leu	
165					170					175						
Gly	Ala	Ala	Ala	Pro	Pro	Ala	Ala	Lys	Glu	Ala	Ala	Ala	His	Leu	Ser	
180					185					190						
Met	Gly	Leu	Gly	Glu	Ser	Ala	Ser	Pro	Arg	Pro	Gln	Pro	Leu	Ala	Arg	
195					200					205						
Pro	His	Ala	Gly	Ala	Pro	Ala	Asp	Pro	Pro	Ile	Val	Gly	Ala	Ser	Asp	
210					215					220						
Pro	Pro	Ile	Ser	Pro	Glu	Glu	Gln	Leu	Thr	Ala	Pro	Gly	Gly	Asp	Thr	
225					230					235					240	
Thr	Ala	Ala	Gln	Asp	Val	Ser	Ile	Ala	Gln	Glu	Asn	Glu	Glu	Ile	Leu	
245					250					255						
Ala	Leu	Val	Gln	Arg	Ala	Val	Gln	Asp	Val	Thr	Arg	Arg	His	Pro	Val	
260					265					270						
Arg	Ala	Arg	Thr	Gly	Arg	Ala	Ala	Cys	Gly	Val	Ala	Ser	Gly	Leu	Arg	
275					280					285						
Gln	Gly	Ala	Leu	Val	His	Gln	Ala	Val	Ser	Gly	Gly	Ala	Met	Gly	Ala	
290					295					300						
Ala	Asp	Ala	Asp	Ala	Val	Leu	Ala	Gly	Leu	Glu	Pro	Pro	Gly	Gly	Gly	
305					310					315					320	
Arg	Phe	Val	Ala	Pro	Ala	Pro	His	Gly	Pro	Gly	Gly	Glu	Asp	Ile	Leu	
325					330					335						
Asn	Asp	Val	Leu	Thr	Leu	Thr	Pro	Gly	Thr	Ala	Lys	Pro	Arg	Ser	Leu	

340

345

350

Val Glu Trp Leu
355

<210> 37
<211> 1056
<212> DNA
<213> Herpes Virus

<400> 37
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ggatgggaag ccctggccgg cggcgaccgg ccggactggc tgtggagccg tcgttctatc 120
tccgtggtcc tgcgccacca ctacggaacc aagcagcgtc tcgtcgtcgt ctctacgag 180
aactccgtgg cgtggggcgg gcgacgcgcc cgcctccgc tgcgtgcctc ggcgctggcc 240
acggccctga ccgaggcctg cgcgcagaa cgcgtcgtgc gccccacca gctgtctccc 300
gctgggcagg cggagctgct gctacgcttt cccgcgtcgc aggtgcccct gcgccaccgc 360
cgccccgtcc tgccgccctt tgacatcgcc gccgaggtcg cctttaccgc gcgcatacat 420
ctggcggtgcc tccgggccct gggccaggcc atccggggcc cgcttcaggg cggcccgca 480
atctcacagc gcctgcgcta tgactttggc cccgaccaac gcgcgtggtt gggggaggtg 540
accaggcgct tccccattct cctcgagaac ctgatgcgcg ccgtcgaggg gaccgcccc 600
gacgcctttt ttcacaccgc gtatgccctg gccgtcctgg cacacctggg gggacggggc 660
ggtcgggggc ggcggtcgt cccgctcggc gacgacctcc cggcccgcct tgccgactcc 720
gacggccatt acgtttttga ctactacagc acaagcggag acacgctgcg gcttaacaat 780
cgtccaatcg ccgtggcgat ggatggtgac gtcagtaaac gcgagcagag taaatgtcgc 840
ttcatggagg ccgtccctc cacagcccca cgcagggtct gcgagcaata cctgcccggg 900
gaaagctacg cctacctctg cctgggggtt aatcgccgcc tctgtggcat agttgtcttt 960
cccggcggtc ttgcgttcac cattaacatc gcggcctacc ttagcctctc ggaccccgtc 1020
gcgcggggcc ctgtccttag gttttgtcgc aagggtg 1056

<210> 38
<211> 352
<212> PRT
<213> Herpes Virus

<400> 38
Val Leu Thr Leu Thr Pro Gly Thr Ala Lys Pro Arg Ser Leu Val Glu
1 5 10 15
Trp Leu Asp Arg Gly Trp Glu Ala Leu Ala Gly Gly Asp Arg Pro Asp
20 25 30
Trp Leu Trp Ser Arg Arg Ser Ile Ser Val Val Leu Arg His His Tyr
35 40 45
Gly Thr Lys Gln Arg Phe Val Val Val Ser Tyr Glu Asn Ser Val Ala
50 55 60
Trp Gly Gly Arg Arg Ala Arg Pro Pro Leu Leu Ser Ser Ala Leu Ala
65 70 75 80
Thr Ala Leu Thr Glu Ala Cys Ala Ala Glu Arg Val Val Arg Pro His
85 90 95
Gln Leu Ser Pro Ala Gly Gln Ala Glu Leu Leu Leu Arg Phe Pro Ala

100					105					110						
Leu	Glu	Val	Pro	Leu	Arg	His	Pro	Arg	Pro	Val	Leu	Pro	Pro	Phe	Asp	
115					120					125						
Ile	Ala	Ala	Glu	Val	Ala	Phe	Thr	Ala	Arg	Ile	His	Leu	Ala	Cys	Leu	
130					135					140						
Arg	Ala	Leu	Gly	Gln	Ala	Ile	Arg	Ala	Ala	Leu	Gln	Gly	Gly	Pro	Arg	
145					150					155					160	
Ile	Ser	Gln	Arg	Leu	Arg	Tyr	Asp	Phe	Gly	Pro	Asp	Gln	Arg	Ala	Trp	
165					170					175						
Leu	Gly	Glu	Val	Thr	Arg	Arg	Phe	Pro	Ile	Leu	Leu	Glu	Asn	Leu	Met	
180					185					190						
Arg	Ala	Val	Glu	Gly	Thr	Ala	Pro	Asp	Ala	Phe	Phe	His	Thr	Ala	Tyr	
195					200					205						
Ala	Leu	Ala	Val	Leu	Ala	His	Leu	Gly	Gly	Arg	Gly	Gly	Arg	Gly	Arg	
210					215					220						
Arg	Val	Val	Pro	Leu	Gly	Asp	Asp	Leu	Pro	Ala	Arg	Phe	Ala	Asp	Ser	
225					230					235					240	
Asp	Gly	His	Tyr	Val	Phe	Asp	Tyr	Tyr	Ser	Thr	Ser	Gly	Asp	Thr	Leu	
245					250					255						
Arg	Leu	Asn	Asn	Arg	Pro	Ile	Ala	Val	Ala	Met	Asp	Gly	Asp	Val	Ser	
260					265					270						
Lys	Arg	Glu	Gln	Ser	Lys	Cys	Arg	Phe	Met	Glu	Ala	Val	Pro	Ser	Thr	
275					280					285						
Ala	Pro	Arg	Arg	Val	Cys	Glu	Gln	Tyr	Leu	Pro	Gly	Glu	Ser	Tyr	Ala	
290					295					300						
Tyr	Leu	Cys	Leu	Gly	Phe	Asn	Arg	Arg	Leu	Cys	Gly	Ile	Val	Val	Phe	
305					310					315					320	
Pro	Gly	Gly	Phe	Ala	Phe	Thr	Ile	Asn	Ile	Ala	Ala	Tyr	Leu	Ser	Leu	
325					330					335						
Ser	Asp	Pro	Val	Ala	Arg	Ala	Ala	Val	Leu	Arg	Phe	Cys	Arg	Lys	Val	
340					345					350						

<210> 39
 <211> 2112
 <212> DNA
 <213> Herpes Virus

<400> 39

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cggtcttttg ttcacgtcat catatccagc gagtgcctgg cggccgcggg aatccctctg 120
gccgccctga tgcgcggccg ccccgactc gggacggccg caaacttcca ggtcgaaatc 180
cagactcggg ctcatgccac cggcgactgt acccctgggt gcacggcggt tgccgcctac 240
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gttgtctttc ccggcggcct tgcgttcacc attaacatcg cggcctacct tagcctctcg 2040
gaccccgctg cgcggggcgc tgtccttagg ttttgtcgca aggtgtcgtc cgggaacggc 2100
cggtctcgct ag 2112

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<210> 40
 <211> 703
 <212> PRT
 <213> Herpes Virus

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<400> 40
Met Asn Ala His Leu Ala Asn Glu Val Gln Thr Ile Ser Ala Thr Ala
  1               5               10              15

Arg Val Gly Pro Arg Ser Leu Val His Val Ile Ile Ser Ser Glu Cys
      20               25              30

Leu Ala Ala Ala Gly Ile Pro Leu Ala Ala Leu Met Arg Gly Arg Pro
      35               40              45

Gly Leu Gly Thr Ala Ala Asn Phe Gln Val Glu Ile Gln Thr Arg Ala
      50               55              60

His Ala Thr Gly Asp Cys Thr Pro Trp Cys Thr Ala Phe Ala Ala Tyr

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65	70	75	80
Val Pro Ala Asp	Ala Val Gly Glu Leu Leu Ala	Pro Val Val Pro Ala	
	85	90	95
His Pro Gly Leu Leu Pro Arg Ala Ser Ser Ala Gly Gly Leu Phe Val			
	100	105	110
Ser Leu Pro Val Val Cys Asp Ala Gln Gly Val Tyr Asp Pro Tyr Ala			
	115	120	125
Val Ala Ala Leu Arg Leu Ala Trp Gly Ser Gly Ala Ser Cys Ala Arg			
	130	135	140
Val Ile Leu Phe Ser Tyr Asp Glu Leu Val Pro Pro Asn Thr Arg Tyr			
	145	150	155
Ala Ala Asp Ser Thr Arg Ile Met Arg Val Cys Arg His Leu Cys Arg			
	165	170	175
Tyr Val Ala Leu Leu Gly Ala Ala Ala Pro Pro Ala Ala Lys Glu Ala			
	180	185	190
Ala Ala His Leu Ser Met Gly Leu Gly Glu Ser Ala Ser Pro Arg Pro			
	195	200	205
Gln Pro Leu Ala Arg Pro His Ala Gly Ala Pro Ala Asp Pro Pro Ile			
	210	215	220
Val Gly Ala Ser Asp Pro Pro Ile Ser Pro Glu Glu Gln Leu Thr Ala			
	225	230	235
Pro Gly Gly Asp Thr Thr Ala Ala Gln Asp Val Ser Ile Ala Gln Glu			
	245	250	255
Asn Glu Glu Ile Leu Ala Leu Val Gln Arg Ala Val Gln Asp Val Thr			
	260	265	270
Arg Arg His Pro Val Arg Ala Arg Thr Gly Arg Ala Ala Cys Gly Val			
	275	280	285
Ala Ser Gly Leu Arg Gln Gly Ala Leu Val His Gln Ala Val Ser Gly			
	290	295	300
Gly Ala Met Gly Ala Ala Asp Ala Asp Ala Val Leu Ala Gly Leu Glu			
	305	310	315
Pro Pro Gly Gly Gly Arg Phe Val Ala Pro Ala Pro His Gly Pro Gly			
	325	330	335
Gly Glu Asp Ile Leu Asn Asp Val Leu Thr Leu Thr Pro Gly Thr Ala			
	340	345	350
Lys Pro Arg Ser Leu Val Glu Trp Leu Asp Arg Gly Trp Glu Ala Leu			
	355	360	365
Ala Gly Gly Asp Arg Pro Asp Trp Leu Trp Ser Arg Arg Ser Ile Ser			

370		375		380
Val Val Leu Arg His His Tyr Gly Thr Lys Gln Arg Phe Val Val Val				
385		390		400
Ser Tyr Glu Asn Ser Val Ala Trp Gly Gly Arg Arg Ala Arg Pro Pro				
	405		410	415
Leu Leu Ser Ser Ala Leu Ala Thr Ala Leu Thr Glu Ala Cys Ala Ala				
	420		425	430
Glu Arg Val Val Arg Pro His Gln Leu Ser Pro Ala Gly Gln Ala Glu				
	435		440	445
Leu Leu Leu Arg Phe Pro Ala Leu Glu Val Pro Leu Arg His Pro Arg				
	450		455	460
Pro Val Leu Pro Pro Phe Asp Ile Ala Ala Glu Val Ala Phe Thr Ala				
	465		470	475
Arg Ile His Leu Ala Cys Leu Arg Ala Leu Gly Gln Ala Ile Arg Ala				
	485		490	495
Ala Leu Gln Gly Gly Pro Arg Ile Ser Gln Arg Leu Arg Tyr Asp Phe				
	500		505	510
Gly Pro Asp Gln Arg Ala Trp Leu Gly Glu Val Thr Arg Arg Phe Pro				
	515		520	525
Ile Leu Leu Glu Asn Leu Met Arg Ala Val Glu Gly Thr Ala Pro Asp				
	530		535	540
Ala Phe Phe His Thr Ala Tyr Ala Leu Ala Val Leu Ala His Leu Gly				
	545		550	555
Gly Arg Gly Gly Arg Gly Arg Arg Val Val Pro Leu Gly Asp Asp Leu				
	565		570	575
Pro Ala Arg Phe Ala Asp Ser Asp Gly His Tyr Val Phe Asp Tyr Tyr				
	580		585	590
Ser Thr Ser Gly Asp Thr Leu Arg Leu Asn Asn Arg Pro Ile Ala Val				
	595		600	605
Ala Met Asp Gly Asp Val Ser Lys Arg Glu Gln Ser Lys Cys Arg Phe				
	610		615	620
Met Glu Ala Val Pro Ser Thr Ala Pro Arg Arg Val Cys Glu Gln Tyr				
	625		630	635
Leu Pro Gly Glu Ser Tyr Ala Tyr Leu Cys Leu Gly Phe Asn Arg Arg				
	645		650	655
Leu Cys Gly Ile Val Val Phe Pro Gly Gly Phe Ala Phe Thr Ile Asn				
	660		665	670
Ile Ala Ala Tyr Leu Ser Leu Ser Asp Pro Val Ala Arg Ala Ala Val				

675

680

685

Leu Arg Phe Cys Arg Lys Val Ser Ser Gly Asn Gly Arg Ser Arg
 690 695 700

<210> 41
 <211> 942
 <212> DNA
 <213> Herpes Virus

<400> 41
 gacggctttg aaactgacat cgcgataccc tcgggcatct cgcgccccga tgcggcggcg 60
 ctgcagcgct gcgaagggcg ggtgggtattc ctgccgacca tccgccggca actgacgctg 120
 gccgacgtgg cgcacgaatc cttcgtctcc ggaggcgtca gtcccgacac gttgggggtt 180
 ttgctggcgt accgaagggc cttccccgcg gtcatacccc ggggtgcttc cacgcgaatc 240
 gtcgcctgcc ccctggacgt gggcctcacc cagccggca ccgttaacct tcgcaacacc 300
 tccccgtag atctctgtaa cggggacccc atcagcctcg tcccgcccggt gttcgagggc 360
 caagcgacgg acgtgcgcct ggattcgctg gacctcacgt tgcgggtttcc cgttccgctt 420
 ccatcgcccc tggcgcgcga aatcgtggcg cggctcgtgg ccaggggcat ccgggacctg 480
 aaccccagcc ccagaaaccc cggagggctg ccagacctca acgtgctgta ctacaacggg 540
 agtcgcctct cgctgctggc ggacgtccaa caactcggtc ccgtaaacgc cgagctgcga 600
 tcgctggctc ttaacatggt ttactcgatc acggagggaa ccaccatcat ccttacgcta 660
 atcccccggc tctttgcgct aagtgccag gacgggtacg tgaacgctct actgcagatg 720
 cagagtgtca cgcgggaggg cgcacagctc attcaccccg aagccccggc cctgatgcag 780
 gatggagagc gaaggctgcc gctttacgag gcgctcgtcg cctggctgac ccacgcgggc 840
 caactaggag acaccttggc .cctggctccc gtggttcggg tgtgcacctt tgacggcgcg 900
 gccgttgtgc ggtccggaga catggcccc gttatacgt at 942

<210> 42
 <211> 314
 <212> PRT
 <213> Herpes Virus

<400> 42
 Asp Gly Phe Glu Thr Asp Ile Ala Ile Pro Ser Gly Ile Ser Arg Pro
 1 5 10 15
 Asp Ala Ala Ala Leu Gln Arg Cys Glu Gly Arg Val Val Phe Leu Pro
 20 25 30
 Thr Ile Arg Arg Gln Leu Thr Leu Ala Asp Val Ala His Glu Ser Phe
 35 40 45
 Val Ser Gly Gly Val Ser Pro Asp Thr Leu Gly Leu Leu Leu Ala Tyr
 50 55 60
 Arg Arg Arg Phe Pro Ala Val Ile Thr Arg Val Leu Pro Thr Arg Ile
 65 70 75 80
 Val Ala Cys Pro Leu Asp Val Gly Leu Thr His Ala Gly Thr Val Asn
 85 90 95
 Leu Arg Asn Thr Ser Pro Val Asp Leu Cys Asn Gly Asp Pro Ile Ser
 100 105 110

Leu Val Pro Pro Val Phe Glu Gly Gln Ala Thr Asp Val Arg Leu Asp
 115 120 125
 Ser Leu Asp Leu Thr Leu Arg Phe Pro Val Pro Leu Pro Ser Pro Leu
 130 135 140
 Ala Arg Glu Ile Val Ala Arg Leu Val Ala Arg Gly Ile Arg Asp Leu
 145 150 155 160
 Asn Pro Ser Pro Arg Asn Pro Gly Gly Leu Pro Asp Leu Asn Val Leu
 165 170 175
 Tyr Tyr Asn Gly Ser Arg Leu Ser Leu Leu Ala Asp Val Gln Gln Leu
 180 185 190
 Gly Pro Val Asn Ala Glu Leu Arg Ser Leu Val Leu Asn Met Val Tyr
 195 200 205
 Ser Ile Thr Glu Gly Thr Thr Ile Ile Leu Thr Leu Ile Pro Arg Leu
 210 215 220
 Phe Ala Leu Ser Ala Gln Asp Gly Tyr Val Asn Ala Leu Leu Gln Met
 225 230 235 240
 Gln Ser Val Thr Arg Glu Ala Ala Gln Leu Ile His Pro Glu Ala Pro
 245 250 255
 Ala Leu Met Gln Asp Gly Glu Arg Arg Leu Pro Leu Tyr Glu Ala Leu
 260 265 270
 Val Ala Trp Leu Thr His Ala Gly Gln Leu Gly Asp Thr Leu Ala Leu
 275 280 285
 Ala Pro Val Val Arg Val Cys Thr Phe Asp Gly Ala Ala Val Val Arg
 290 295 300
 Ser Gly Asp Met Ala Pro Val Ile Arg Tyr
 305 310

<210> 43
 <211> 957
 <212> DNA
 <213> Herpes Virus

<400> 43
 atgctggcgg acggctttga aactgacatc gcgataccct cgggcatctc gcgccccgat 60
 gcggcggcgc tgcagcgtcg cgaaggcggt gtggtattcc tgccgaccat ccgccggcaa 120
 ctgacgctgg ccgacgtggc gcacgaatcc ttctgtctcg gaggcgtcag tcccgacacg 180
 ttgggggttg tgctggcgta ccgaaggcgc ttccccgcgg tcatcacccg ggtgcttccc 240
 acgcgaatcg tcgcctgccc cctggacgtg ggccctcacc acgccggcac cgttaacctt 300
 cgcaacacct cccccgtaga tctctgtaac ggggacccca tcagcctcgt cccgcccgtg 360
 ttcgagggcc aagcgacgga cgtgcgcctg gattcgtctg acctcacgtt gcggtttccc 420
 gttccgcttc catcgcccct ggcgcgcgaa atcgtggcgc ggctcgtggc caggggcatc 480
 cgggacctga accccagccc cagaaacccc ggagggctgc cagacctcaa cgtgctgtac 540
 tacaacggga gtgcctctc gctgctggcg gacgtccaac aactcgggcc cgtaaaccgc 600
 gagctgcgat cgctggctct taacatggtt tactcgatca cggaggggaa caccatcatc 660

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cttacgctaa tccccggct ctttgcgcta agtgcccagg acgggtacgt gaacgctcta 720
ctgcagatgc agagtgtcac gcgggaggcc gccagctca ttcaccccca agccccggcc 780
ctgatgcagg atggagagcg aaggctgccg ctttacgagg cgctcgtcgc ctggctgacc 840
cacgcgggcc aactaggaga caccttgccg ctggctcccg tggttcgggt gtgcaccttt 900
gacggcgcgcg ccgttggtgcg gtccggagac atggcccccg ttatacgcta tccctaa 957

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<210> 44
 <211> 318
 <212> PRT
 <213> Herpes Virus

```

<400> 44
Met Leu Ala Asp Gly Phe Glu Thr Asp Ile Ala Ile Pro Ser Gly Ile
  1             5             10             15

Ser Arg Pro Asp Ala Ala Ala Leu Gln Arg Cys Glu Gly Arg Val Val
             20             25             30

Phe Leu Pro Thr Ile Arg Arg Gln Leu Thr Leu Ala Asp Val Ala His
  35             40             45

Glu Ser Phe Val Ser Gly Gly Val Ser Pro Asp Thr Leu Gly Leu Leu
  50             55             60

Leu Ala Tyr Arg Arg Arg Phe Pro Ala Val Ile Thr Arg Val Leu Pro
  65             70             75             80

Thr Arg Ile Val Ala Cys Pro Leu Asp Val Gly Leu Thr His Ala Gly
             85             90             95

Thr Val Asn Leu Arg Asn Thr Ser Pro Val Asp Leu Cys Asn Gly Asp
             100            105            110

Pro Ile Ser Leu Val Pro Pro Val Phe Glu Gly Gln Ala Thr Asp Val
             115            120            125

Arg Leu Asp Ser Leu Asp Leu Thr Leu Arg Phe Pro Val Pro Leu Pro
             130            135            140

Ser Pro Leu Ala Arg Glu Ile Val Ala Arg Leu Val Ala Arg Gly Ile
             145            150            155            160

Arg Asp Leu Asn Pro Ser Pro Arg Asn Pro Gly Gly Leu Pro Asp Leu
             165            170            175

Asn Val Leu Tyr Tyr Asn Gly Ser Arg Leu Ser Leu Leu Ala Asp Val
             180            185            190

Gln Gln Leu Gly Pro Val Asn Ala Glu Leu Arg Ser Leu Val Leu Asn
             195            200            205

Met Val Tyr Ser Ile Thr Glu Gly Thr Thr Ile Ile Leu Thr Leu Ile
             210            215            220

Pro Arg Leu Phe Ala Leu Ser Ala Gln Asp Gly Tyr Val Asn Ala Leu
             225            230            235            240

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Leu Gln Met Gln Ser Val Thr Arg Glu Ala Ala Gln Leu Ile His Pro
245 250 255

Glu Ala Leu Val Ala Trp Leu Thr His Ala Gly Gln Leu Gly Asp Thr
275 280 285

Val	Val	Arg	Ser	Gly	Asp	Met	Ala	Pro	Val	Ile	Arg	Tyr	Pro
305					310					315			

<400> 45							
cctccgccaa	acaacaccga	ctcgagttcc	ctggtgcccc	gggccccagga	ttccgccccg	60	
cccgccccca	cgctaaggga	gctgtggtgg	gtgttttatg	ccgcagaccg	ggcgctggag	120	
gagccccgcg	ccgactctgg	cctcaccgcg	gaggaggtac	gtgccgtacg	tgggttcccg	180	
gagcaggcgt	ggaaactgtt	tggctccgcg	ggggccccgc	gggcgtttat	cggggccgcg	240	
ttgggcctga	gccccctcca	aaagctagcc	gtttactact	atatcatcca	ccgagagagg	300	
cgctgtctcc	ccttccccgc	gctagtccgg	ctcgtaggcc	ggtacacaca	gcgccacggc	360	
ctgtacgtcc	ctcggccccga	cgaccagtc	ttggccgatg	ccatcaacgg	gctgtttcgc	420	
gacgcgctgg	cggccggaac	cacagccgag	cagctctca	tgttcgacct	tctcccccca	480	
aaggacgtgc	cggtgggaag	cgacgtgcag	gccgacagca	ccgctctgct	gcgctttata	540	
gaatcgcaac	gtctcgccgt	ccccgggggg	gtgatctccc	ccgagcacgt	cgcgtacctt	600	
ggtgcgttcc	tgagcgtgct	gtacgcctgg	cgcgggcgca	tgtccgcagc	cacgcacacc	660	
gcgcggttga	caggggtgac	ctccctggtg	ctagcgttgg	gtgacgtgga	ccgtctttcc	720	
cgcgtttgac	gcggagcggc	gggcgcggcc	agccgcacgc	gggcgcgcgg	gtacctggat	780	
gtgcttctta	ccgttcgt					798	

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<400> 46
Pro Pro Pro Asn Asn Thr Asp Ser Ser Ser Leu Val Pro Gly Ala Gln
  1             5             10             15
```

Tyr Ala Ala Asp Arg Ala Leu Glu Glu Pro Arg Ala Asp Ser Gly Leu
35 40 45

Lys Leu Phe Gly Ser Ala Gly Ala Pro Arg Ala Phe Ile Gly Ala Ala
 65 70 75 80
 Leu Gly Leu Ser Pro Leu Gln Lys Leu Ala Val Tyr Tyr Tyr Ile Ile
 85 90 95
 His Arg Glu Arg Arg Leu Ser Pro Phe Pro Ala Leu Val Arg Leu Val
 100 105 110
 Gly Arg Tyr Thr Gln Arg His Gly Leu Tyr Val Pro Arg Pro Asp Asp
 115 120 125
 Pro Val Leu Ala Asp Ala Ile Asn Gly Leu Phe Arg Asp Ala Leu Ala
 130 135 140
 Ala Gly Thr Thr Ala Glu Gln Leu Leu Met Phe Asp Leu Leu Pro Pro
 145 150 155 160
 Lys Asp Val Pro Val Gly Ser Asp Val Gln Ala Asp Ser Thr Ala Leu
 165 170 175
 Leu Arg Phe Ile Glu Ser Gln Arg Leu Ala Val Pro Gly Gly Val Ile
 180 185 190
 Ser Pro Glu His Val Ala Tyr Leu Gly Ala Phe Leu Ser Val Leu Tyr
 195 200 205
 Ala Gly Arg Gly Arg Met Ser Ala Ala Thr His Thr Ala Arg Leu Thr
 210 215 220
 Gly Val Thr Ser Leu Val Leu Ala Val Gly Asp Val Asp Arg Leu Ser
 225 230 235 240
 Ala Phe Asp Arg Gly Ala Ala Gly Ala Ala Ser Arg Thr Arg Ala Ala
 245 250 255
 Gly Tyr Leu Asp Val Leu Leu Thr Val Arg
 260 265

<210> 47
 <211> 1608
 <212> DNA
 <213> Herpes Virus

<400> 47
 atggagctta gctacgccac caccatgcac taccgggacg ttgtgtttta cgtcacaacg 60
 gaccgaaacc gggcctactt tgtgtgcggg ggggtgtgttt attccgtggg gcggccgtgt 120
 gcctcgcagc ccggggagat tgccaagttt ggtctggtcg ttcgaggac aggccagac 180
 gaccgcgtgg tcgccaacta tgtacgaagc gagctccgac aacgcggcct gcaggacgtg 240
 cgtcccattg gggaggacga ggtgtttctg gacagcgtgt gtcttctaaa cccgaacgtg 300
 agctccgagc tggatgtgat taacacgaac gacgtggaag tgctggacga atgtctggcc 360
 gactactgca cctcgctgcy aaccagcccg ggtgtgctaa tatccgggct gcgcgtgcgg 420
 gcgcaggaca gaatcatcga gttgtttgaa caccacaaga tagtcaacgt ttctcgcac 480
 tttgtgtata ccccgctccc atacgtgttc gccctggccc aggcgcacct ccccggtc 540
 ccgagctcgc tggaggccct ggtgagcggc ctgtttgacg gcatccccgc cccacgccag 600
 ccacttgacg ccacaaccc gcgcacggat gtggttatca cgggcccgcg cgccccacga 660

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cccatcgccg ggtcgggggc ggggtcgggg ggcgcgggcg ccaagcgggc caccgtcagc 720
gagttcgtgc aagtcaaaca cattgaccgc gtgggccccg ctggcgtttc gccggcgcc 780
ccgccaaca acaccgactc gagttccctg gtgcccgggg cccaggattc cgccccgcc 840
ggccccacgc taaggagct gtggtgggtg ttttatgccg cagaccgggc gctggaggag 900
ccccgcgcg actctggcct caccgcgag gaggtacgtg ccgtacgtgg gttccgggag 960
caggcgtgga aactgtttgg ctccgcgggg gcccgcggg cgtttatcgg ggccgcgttg 1020
ggcctgagcc ccctccaaaa gctagccgtt tactactata tcatccaccg agagaggcgc 1080
ctgtccccct tccccgcgt agtccggctc gtaggcgggt acacacagcg ccacggcctg 1140
tacgtccctc ggcccagca cccagtcttg gccgatgcca tcaacgggct gtttcgcgac 1200
gcgctggcgg ccggaaccac agccgagcag ctctcatgt tcgaccttct cccccaaag 1260
gacgtgccgg tgggaagcga cgtgcaggcc gacagcaccg ctctgctgcg ctttatagaa 1320
tcgcaacgtc tcgccgtccc cggggggggtg atctcccccg agcacgtcgc gtaccttggt 1380
gcgttcctga gcgtgctgta cgctggccgc gggcgcatgt ccgcagccac gcacaccgcg 1440
cggtgacag gggtagctc cctggtgcta gcggtgggtg acgtggaccg tctttccgcg 1500
tttgaccgcg gagcggcggg cgcgccagc cgcacgcggg ccgccgggta cctggatgtg 1560
cttcttaccg ttcgtctcgc tcgtcccaa caggacagt ctgtgtaa 1608

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<210> 48
 <211> 535
 <212> PRT
 <213> Herpes Virus

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<400> 48
Met Glu Leu Ser Tyr Ala Thr Thr Met His Tyr Arg Asp Val Val Phe
 1             5             10            15

Tyr Val Thr Thr Asp Arg Asn Arg Ala Tyr Phe Val Cys Gly Gly Cys
      20            25            30

Val Tyr Ser Val Gly Arg Pro Cys Ala Ser Gln Pro Gly Glu Ile Ala
      35            40            45

Lys Phe Gly Leu Val Val Arg Gly Thr Gly Pro Asp Asp Arg Val Val
      50            55            60

Ala Asn Tyr Val Arg Ser Glu Leu Arg Gln Arg Gly Leu Gln Asp Val
      65            70            75            80

Arg Pro Ile Gly Glu Asp Glu Val Phe Leu Asp Ser Val Cys Leu Leu
      85            90            95

Asn Pro Asn Val Ser Ser Glu Leu Asp Val Ile Asn Thr Asn Asp Val
      100           105           110

Glu Val Leu Asp Glu Cys Leu Ala Glu Tyr Cys Thr Ser Leu Arg Thr
      115           120           125

Ser Pro Gly Val Leu Ile Ser Gly Leu Arg Val Arg Ala Gln Asp Arg
      130           135           140

Ile Ile Glu Leu Phe Glu His Pro Thr Ile Val Asn Val Ser Ser His
      145           150           155           160

Phe Val Tyr Thr Pro Ser Pro Tyr Val Phe Ala Leu Ala Gln Ala His
      165           170           175

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Leu	Pro	Arg	Leu	Pro	Ser	Ser	Leu	Glu	Ala	Leu	Val	Ser	Gly	Leu	Phe	180	185	190	
Asp	Gly	Ile	Pro	Ala	Pro	Arg	Gln	Pro	Leu	Asp	Ala	His	Asn	Pro	Arg	195	200	205	
Thr	Asp	Val	Val	Ile	Thr	Gly	Arg	Arg	Ala	Pro	Arg	Pro	Ile	Ala	Gly	210	215	220	
Ser	Gly	Ala	Gly	Ser	Gly	Gly	Ala	Gly	Ala	Lys	Arg	Ala	Thr	Val	Ser	225	230	235	240
Glu	Phe	Val	Gln	Val	Lys	His	Ile	Asp	Arg	Val	Gly	Pro	Ala	Gly	Val	245	250	255	
Ser	Pro	Ala	Pro	Pro	Pro	Asn	Asn	Thr	Asp	Ser	Ser	Ser	Leu	Val	Pro	260	265	270	
Gly	Ala	Gln	Asp	Ser	Ala	Pro	Pro	Gly	Pro	Thr	Leu	Arg	Gly	Leu	Trp	275	280	285	
Trp	Val	Phe	Tyr	Ala	Ala	Asp	Arg	Ala	Leu	Glu	Glu	Pro	Arg	Ala	Asp	290	295	300	
Ser	Gly	Leu	Thr	Arg	Glu	Glu	Val	Arg	Ala	Val	Arg	Gly	Phe	Arg	Glu	305	310	315	320
Gln	Ala	Trp	Lys	Leu	Phe	Gly	Ser	Ala	Gly	Ala	Pro	Arg	Ala	Phe	Ile	325	330	335	
Gly	Ala	Ala	Leu	Gly	Leu	Ser	Pro	Leu	Gln	Lys	Leu	Ala	Val	Tyr	Tyr	340	345	350	
Tyr	Ile	Ile	His	Arg	Glu	Arg	Arg	Leu	Ser	Pro	Phe	Pro	Ala	Leu	Val	355	360	365	
Arg	Leu	Val	Gly	Arg	Tyr	Thr	Gln	Arg	His	Gly	Leu	Tyr	Val	Pro	Arg	370	375	380	
Pro	Asp	Asp	Pro	Val	Leu	Ala	Asp	Ala	Ile	Asn	Gly	Leu	Phe	Arg	Asp	385	390	395	400
Ala	Leu	Ala	Ala	Gly	Thr	Thr	Ala	Glu	Gln	Leu	Leu	Met	Phe	Asp	Leu	405	410	415	
Leu	Pro	Pro	Lys	Asp	Val	Pro	Val	Gly	Ser	Asp	Val	Gln	Ala	Asp	Ser	420	425	430	
Thr	Ala	Leu	Leu	Arg	Phe	Ile	Glu	Ser	Gln	Arg	Leu	Ala	Val	Pro	Gly	435	440	445	
Gly	Val	Ile	Ser	Pro	Glu	His	Val	Ala	Tyr	Leu	Gly	Ala	Phe	Leu	Ser	450	455	460	
Val	Leu	Tyr	Ala	Gly	Arg	Gly	Arg	Met	Ser	Ala	Ala	Thr	His	Thr	Ala	465	470	475	480

Arg Leu Thr Gly Val Thr Ser Leu Val Leu Ala Val Gly Asp Val Asp
485 490 495

Arg Leu Ser Ala Phe Asp Arg Gly Ala Ala Gly Ala Ala Ser Arg Thr
500 505 510

Arg Ala Ala Gly Tyr Leu Asp Val Leu Leu Thr Val Arg Leu Ala Arg
515 520 525

Ser Gln His Gly Gln Ser Val
530 535

<210> 49
<211> 834
<212> DNA
<213> Herpes Virus

<400> 49
gattcccgaa acttcatcac ccccgagttc ccccgggact tttggatgtc gcccgctctt 60
aacctcccc gggagacggc ggcggagcag gtggtcgtcc tacaggccca gcgcacagcg 120
gctgccgctg ccctggagaa cgccgccatg caggcggccg agtccccgt cgatatcgag 180
cgccggttac gcccgatcga acggaacgtg cagcagatcg caggcgcctt ggaggcgtg 240
gagacggcgg cgccgcgcgc cgaagaggcg gatgccgcgc gcggggatga gccggcggtt 300
ggggggcgacg ggggggcgcc cccgggtctg gccgtcgcgg agatggaggt ccagatcgtg 360
cgcaacgacc cgccgctacg atacgacacc aacctccccg tggatctgct acacatggtg 420
tacgcggggc gcggggcgac cggctcgtcg ggggtggtgt tcgggacctg gtaccgcact 480
atccaggacc gcaccatcac ggactttccc ctgaccaccc gcagtgccga ctttcgggac 540
ggccgtatgt ccaagacctt catgacggcg ctggtactgt cctgcaggc gtgcggccgg 600
ctgtatgtgg gccagcgcca ctattccgcc ttcgagtgcg ccgtggtgtg tctctacctg 660
ctgtaccgaa acacgcacgg ggccgcccgc gatagcgacc gcgctccggt cacgttcggg 720
gatctgctgg gccggtgcc ccgtacctg gcgtgcctgg ccgcggtgat cgggaccgag 780
ggcgcccggc cacagtaccg ctaccgcgac gacaagctcc ccaagacgca gttc 834

<210> 50
<211> 278
<212> PRT
<213> Herpes Virus

<400> 50
Asp Ser Arg Asn Phe Ile Thr Pro Glu Phe Pro Arg Asp Phe Trp Met
1 5 10 15
Ser Pro Val Phe Asn Leu Pro Arg Glu Thr Ala Ala Glu Gln Val Val
20 25 30
Val Leu Gln Ala Gln Arg Thr Ala Ala Ala Ala Ala Leu Glu Asn Ala
35 40 45
Ala Met Gln Ala Ala Glu Leu Pro Val Asp Ile Glu Arg Arg Leu Arg
50 55 60
Pro Ile Glu Arg Asn Val His Glu Ile Ala Gly Ala Leu Glu Ala Leu
65 70 75 80
Glu Thr Ala Ala Ala Ala Ala Glu Glu Ala Asp Ala Ala Arg Gly Asp

	85		90		95
Glu Pro Ala Gly Gly Gly Asp Gly Gly Ala Pro Pro Gly Leu Ala Val	100		105		110
Ala Glu Met Glu Val Gln Ile Val Arg Asn Asp Pro Pro Leu Arg Tyr	115		120		125
Asp Thr Asn Leu Pro Val Asp Leu Leu His Met Val Tyr Ala Gly Arg	130		135		140
Gly Ala Thr Gly Ser Ser Gly Val Val Phe Gly Thr Trp Tyr Arg Thr	145		150		155
Ile Gln Asp Arg Thr Ile Thr Asp Phe Pro Leu Thr Thr Arg Ser Ala	165		170		175
Asp Phe Arg Asp Gly Arg Met Ser Lys Thr Phe Met Thr Ala Leu Val	180		185		190
Leu Ser Leu Gln Ala Cys Gly Arg Leu Tyr Val Gly Gln Arg His Tyr	195		200		205
Ser Ala Phe Glu Cys Ala Val Leu Cys Leu Tyr Leu Leu Tyr Arg Asn	210		215		220
Thr His Gly Ala Ala Asp Asp Ser Asp Arg Ala Pro Val Thr Phe Gly	225		230		235
Asp Leu Leu Gly Arg Leu Pro Arg Tyr Leu Ala Cys Leu Ala Ala Val	245		250		255
Ile Gly Thr Glu Gly Gly Arg Pro Gln Tyr Arg Tyr Arg Asp Asp Lys	260		265		270
Leu Pro Lys Thr Gln Phe	275				

<210> 51
 <211> 1743
 <212> DNA
 <213> Herpes Virus

<400> 51
 atggaccggt actgcccatt tgacgctctg gacgtctggg aacacaggcg cttcatagtc 60
 gccgattccc gaaacttcat ccccccgag ttccccggg acttttgat gtcgcccgtc 120
 tttaacctcc cccgggagac ggcgggcgag caggtggtcg tcctacaggc ccagcgaca 180
 gcggctgccg ctgccctgga gaacgccgcc atgcaggcg ccgagctccc cgtcgatatc 240
 gagcgccggt tacgcccgat cgaacggaac gtgcacgaga tcgcaggcgc cctggaggcg 300
 ctggagacgg cggcgggcgc cgccgaagag gcggatgccg cgcgcgggga tgagccggcg 360
 ggtggggggc acgggggggc gccccgggt ctggccgtcg cggagatgga ggtccagatc 420
 gtgcgcaacg accgcgcgt acgatacgac accaacctcc ccgtggatct gctacacatg 480
 gtgtacgcgg gccgcggggc gaccggctcg tcgggggtgg tgttcgggac ctggtaccgc 540
 actatccagg accgcacat cacggacttt cccctgacca cccgcagtgc cgactttcgg 600
 gacggccgta tgtccaagac cttcatgacg gcgctggtac tgtccctgca ggcgtgcggc 660
 cggctgtatg tgggccagcg ccactattcc gccttcgagt gcgccgtgtt gtgtctctac 720

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ctgctgtacc gaaacacgca cggggccgcc gacgatagcg accgcgctcc gggtcacgttc 780
ggggatctgc tgggcccggct gccccgctac ctggcggtgcc tggccgcgggt gatcggggacc 840
gagggcggcc ggccacagta ccgctaccgc gacgacaagc tccccaaagac gcagttcgcg 900
gccggcgggg gccgctacga acacggagcg ctggcgctcg acatcgatgat cgccacgctg 960
atgcaccacg ggggtgtccc ggcgcccccg ggggacgtcc cccggggacgc gagtaccacac 1020
gttaaccccg acggcggtggc gcaccacgac gacataaacc gcgcgcggcg cgcggttcctc 1080
agccggggcc acaacctatt cctgtgggag gaccagactc tgctgcgggc aaccgcgaac 1140
accataacgg ccctgggcgt tatccagcgg ctctctcgca acggcaacgt gtacgcggac 1200
cgctcaaca accgcctgca gctgggcatg ctgatccccg gagccgtccc ttcggaggcc 1260
atcgcccggtg gggcctccgg gtccgactcg ggggccatca agagcggaga caacaatctg 1320
gagggcgctat gtgccaatta cgtgcttcgg ctgtaccggg ccgaccgcggc gggtcgagctg 1380
acccagctgt tccccggcct ggccgcctcg tgtcttgacg cccaggcggg gcggccggtc 1440
gggtcgacgc ggcggggtggt ggatatgtca tcggggggccc gccaggcggc gctgggtgcg 1500
ctcacgccc tggaactcat caaccgcacc cgcacaaacc ccaccctgt gggggagggt 1560
atccacgccc acgacgccct ggcgatccaa tacgaacagg ggcttggcct gctggcgag 1620
caggcacgca ttggcttggg ctccaacacc aagcgtttct ccgcgttcaa cgtttagcagc 1680
gactacgaca tggtgtactt tttatgtctg gggttcattc cacagtacct gtcggcgggt 1740
tag 1743

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<210> 52
 <211> 580
 <212> PRT
 <213> Herpes Virus

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<400> 52
Met Asp Pro Tyr Cys Pro Phe Asp Ala Leu Asp Val Trp Glu His Arg
  1             5             10            15
Arg Phe Ile Val Ala Asp Ser Arg Asn Phe Ile Thr Pro Glu Phe Pro
      20             25             30
Arg Asp Phe Trp Met Ser Pro Val Phe Asn Leu Pro Arg Glu Thr Ala
      35             40             45
Ala Glu Gln Val Val Val Leu Gln Ala Gln Arg Thr Ala Ala Ala Ala
      50             55             60
Ala Leu Glu Asn Ala Ala Met Gln Ala Ala Glu Leu Pro Val Asp Ile
      65             70             75             80
Glu Arg Arg Leu Arg Pro Ile Glu Arg Asn Val His Glu Ile Ala Gly
      85             90             95
Ala Leu Glu Ala Leu Glu Thr Ala Ala Ala Ala Glu Glu Ala Asp
      100            105            110
Ala Ala Arg Gly Asp Glu Pro Ala Gly Gly Gly Asp Gly Gly Ala Pro
      115            120            125
Pro Gly Leu Ala Val Ala Glu Met Glu Val Gln Ile Val Arg Asn Asp
      130            135            140
Pro Pro Leu Arg Tyr Asp Thr Asn Leu Pro Val Asp Leu Leu His Met
      145            150            155            160
Val Tyr Ala Gly Arg Gly Ala Thr Gly Ser Ser Gly Val Val Phe Gly

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				165						170					175	
Thr	Trp	Tyr	Arg	Thr	Ile	Gln	Asp	Arg	Thr	Ile	Thr	Asp	Phe	Pro	Leu	
			180					185					190			
Thr	Thr	Arg	Ser	Ala	Asp	Phe	Arg	Asp	Gly	Arg	Met	Ser	Lys	Thr	Phe	
		195					200					205				
Met	Thr	Ala	Leu	Val	Leu	Ser	Leu	Gln	Ala	Cys	Gly	Arg	Leu	Tyr	Val	
	210					215					220					
Gly	Gln	Arg	His	Tyr	Ser	Ala	Phe	Glu	Cys	Ala	Val	Leu	Cys	Leu	Tyr	
225					230					235					240	
Leu	Leu	Tyr	Arg	Asn	Thr	His	Gly	Ala	Ala	Asp	Asp	Ser	Asp	Arg	Ala	
				245					250					255		
Pro	Val	Thr	Phe	Gly	Asp	Leu	Leu	Gly	Arg	Leu	Pro	Arg	Tyr	Leu	Ala	
			260					265					270			
Cys	Leu	Ala	Ala	Val	Ile	Gly	Thr	Glu	Gly	Gly	Arg	Pro	Gln	Tyr	Arg	
	275						280					285				
Tyr	Arg	Asp	Asp	Lys	Leu	Pro	Lys	Thr	Gln	Phe	Ala	Ala	Gly	Gly	Gly	
	290					295					300					
Arg	Tyr	Glu	His	Gly	Ala	Leu	Ala	Ser	His	Ile	Val	Ile	Ala	Thr	Leu	
305					310					315					320	
Met	His	His	Gly	Val	Leu	Pro	Ala	Ala	Pro	Gly	Asp	Val	Pro	Arg	Asp	
			325						330					335		
Ala	Ser	Thr	His	Val	Asn	Pro	Asp	Gly	Val	Ala	His	His	Asp	Asp	Ile	
			340					345					350			
Asn	Arg	Ala	Ala	Ala	Ala	Phe	Leu	Ser	Arg	Gly	His	Asn	Leu	Phe	Leu	
		355					360					365				
Trp	Glu	Asp	Gln	Thr	Leu	Leu	Arg	Ala	Thr	Ala	Asn	Thr	Ile	Thr	Ala	
	370					375					380					
Leu	Gly	Val	Ile	Gln	Arg	Leu	Leu	Ala	Asn	Gly	Asn	Val	Tyr	Ala	Asp	
385					390					395					400	
Arg	Leu	Asn	Asn	Arg	Leu	Gln	Leu	Gly	Met	Leu	Ile	Pro	Gly	Ala	Val	
			405						410					415		
Pro	Ser	Glu	Ala	Ile	Ala	Arg	Gly	Ala	Ser	Gly	Ser	Asp	Ser	Gly	Ala	
		420						425					430			
Ile	Lys	Ser	Gly	Asp	Asn	Asn	Leu	Glu	Ala	Leu	Cys	Ala	Asn	Tyr	Val	
		435					440					445				
Leu	Pro	Leu	Tyr	Arg	Ala	Asp	Pro	Ala	Val	Glu	Leu	Thr	Gln	Leu	Phe	
	450					455					460					
Pro	Gly	Leu	Ala	Ala	Leu	Cys	Leu	Asp	Ala	Gln	Ala	Gly	Arg	Pro	Val	

465	470	475	480
Gly Ser Thr Arg Arg Val Val Asp Met Ser Ser Gly Ala Arg Gln Ala			
	485	490	495
Ala Leu Val Arg Leu Thr Ala Leu Glu Leu Ile Asn Arg Thr Arg Thr			
	500	505	510
Asn Pro Thr Pro Val Gly Glu Val Ile His Ala His Asp Ala Leu Ala			
	515	520	525
Ile Gln Tyr Glu Gln Gly Leu Gly Leu Leu Ala Gln Gln Ala Arg Ile			
	530	535	540
Gly Leu Gly Ser Asn Thr Lys Arg Phe Ser Ala Phe Asn Val Ser Ser			
	545	550	555
Asp Tyr Asp Met Leu Tyr Phe Leu Cys Leu Gly Phe Ile Pro Gln Tyr			
	565	570	575
Leu Ser Ala Val			
	580		

<210> 53
 <211> 683
 <212> DNA
 <213> Herpes Virus

<400> 53
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 caggctcgacg gcttctacgc gcgcgacctc accaccaagg cccggggccac ggcgccgacc 180
 acccggaacc tgctcacgac ccccaagttc accgtggcct gggactgggt gccaaagcgc 240
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 ggcggctcct tccgattctc ttccgacgcc atatccacca cttcaccac caacctgacc 360
 gagtaccgcg tctcgcgcggt ggacctgggg gactgcatcg gcaaggacgc ccgcgacgcc 420
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 tactacctgg ccaatggggg ctttctgatc gcgtaccagc cccttctcag caacacgctc 540
 gcggagctgt acgtgcggga acacctccgc gagcagagcc gcaagccccc aaaccccacg 600
 cccccgccgc ccggggccag cgccaacgcg tccgtggagc gcatcaagac cacctcctcc 660
 atcgagttcg ccaggctgca gtt 683

<210> 54
 <211> 227
 <212> PRT
 <213> Herpes Virus

<400> 54
 Val Tyr Pro Tyr Asp Glu Phe Val Leu Ala Thr Gly Asp Phe Val Tyr
 1 5 10 15
 Met Ser Pro Phe Tyr Gly Tyr Arg Glu Gly Ser His Thr Glu His Thr
 20 25 30
 Ser Tyr Ala Ala Asp Arg Phe Lys Gln Val Asp Gly Phe Tyr Ala Arg

35	40	45
Asp Leu Thr Thr Lys Ala Arg Ala Thr Ala Pro Thr Thr Arg Asn Leu		
50	55	60
Leu Thr Thr Pro Lys Phe Thr Val Ala Trp Asp Trp Val Pro Lys Arg		
65	70	75 80
Pro Ser Val Cys Thr Met Thr Lys Trp Gln Glu Val Asp Glu Met Leu		
	85	90 95
Arg Ser Glu Tyr Gly Gly Ser Phe Arg Phe Ser Ser Asp Ala Ile Ser		
100	105	110
Thr Thr Phe Thr Thr Asn Leu Thr Glu Tyr Pro Leu Ser Arg Val Asp		
115	120	125
Leu Gly Asp Cys Ile Gly Lys Asp Ala Arg Asp Ala Met Asp Arg Ile		
130	135	140
Phe Ala Arg Arg Tyr Asn Ala Thr His Ile Lys Val Gly Gln Pro Gln		
145	150	155 160
Tyr Tyr Leu Ala Asn Gly Gly Phe Leu Ile Ala Tyr Gln Pro Leu Leu		
	165	170 175
Ser Asn Thr Leu Ala Glu Leu Tyr Val Arg Glu His Leu Arg Glu Gln		
180	185	190
Ser Arg Lys Pro Pro Asn Pro Thr Pro Pro Pro Pro Gly Ala Ser Ala		
195	200	205
Asn Ala Ser Val Glu Arg Ile Lys Thr Thr Ser Ser Ile Glu Phe Ala		
210	215	220
Arg Leu Gln		
225		

<210> 55
 <211> 2715
 <212> DNA
 <213> Herpes Virus

<400> 55
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 gcggccgcga ccagggcggc gaacgggggc cctgccactc cggcgccgcc cgcccctggc 180
 gcccccccaa cgggggaccc gaaaccgaag aagaacagaa aaccgaaacc cccaaagccg 240
 ccgcgccccg ccggcgacaa cgcgaccgtc gccgcgggcc acgccaccct gcgcgagcac 300
 ctgcgggaca tcaaggcgga gaacaccgat gcaaactttt acgtgtgccc accccccacg 360
 ggcgccacgg tgggtgcagtt cgagcagccg cgccgctgcc cgacccggcc cgagggtcag 420
 aactacacgg agggcatcgc ggtggtcttc aaggagaaca tcgccccgta caagttcaag 480
 gccaccatgt actacaaaga cgtcaccgtt tcgcaggtgt ggttcggcca ccgctactcc 540
 cagtttatgg ggatctttga ggaccgcgcc cccgtcccct tcgaggaggt gatcgacaag 600
 atcaacgcca aggggggtctg tcggtccacg gccaaagtacg tgcgcaacaa cctggagacc 660
 accgcgtttc accgggacga ccacgagacc gacatggagc tgaaaccggc caacgccgcg 720

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accgcacga gccggggctg gcacaccacc gacctcaagt acaaccctc gcgggtggag 780
gcgttccacc ggtacgggac gacggtaaac tgcacgtcg aggaggtgga cgcgcgtcg 840
gtgtaccctg acgacgagtt tgtgttggcg actggcgact ttgtgtacat gtccccgttt 900
tacggctacc gggaggggtc gcacaccgaa cacaccagct acgccgccga ccgcttcaag 960
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gcggagctgt acgtgcggga acacctccgc gagcagagcc gcaagcccc aaacccacg 1440
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ctggtcagct ttcggtacga agaccagggc ccgttggtcg aggggcagct gggggagAAC 1860
aacgagctgc ggctgacgcg cgatgcgata gagccgtgca ccgtgggaca ccggcgctac 1920
ttcaccttcg gtgggggcta cgtgtacttc gaggagtacg cgtactcca ccagctgagc 1980
cgcgccgaca tcaccaccgt cagcaccttc atcgacctca acatcaccat gctggaggat 2040
cacgagtttg tccccctgga ggtgtacacc cgccacgaga tcaaggacag cggcctgctg 2100
gactacacgg aggtccagcg ccgcaaccag ctgcacgacc tgcgcttcgc cgacatcgac 2160
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accaaccgg acggtccgg ggagggcgag gagggcggcg actttgacga ggccaagcta 2520
gccgagggcc gggagatgat acggtacatg gccctggtgt ctgccatgga gcgcacggaa 2580
cacaaggcca agaagaagg cagagcgcg ctgctcagcg ccaaggtcac cgacatggtc 2640
atgcgcaagc gccgcaacac caactacacc caagttcca acaaagacgg tgacgccgac 2700
gaggacgacc tgtga 2715

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<210> 56
 <211> 904
 <212> PRT
 <213> Herpes Virus

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<400> 56
Met Arg Gln Gly Ala Pro Ala Arg Gly Cys Arg Trp Phe Val Val Trp
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Ala Leu Leu Gly Leu Thr Leu Gly Val Leu Val Ala Ser Ala Ala Pro
  20              25              30

Ser Ser Pro Gly Thr Pro Gly Val Ala Ala Ala Thr Gln Ala Ala Asn
  35              40              45

Gly Gly Pro Ala Thr Pro Ala Pro Pro Ala Leu Gly Ala Ala Pro Thr
  50              55              60

Gly Asp Pro Lys Pro Lys Lys Asn Lys Lys Pro Lys Asn Pro Thr Pro
  65              70              75              80

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Pro	Arg	Pro	Ala	Gly	Asp	Asn	Ala	Thr	Val	Ala	Ala	Gly	His	Ala	Thr	85	90	95
Leu	Arg	Glu	His	Leu	Arg	Asp	Ile	Lys	Ala	Glu	Asn	Thr	Asp	Ala	Asn	100	105	110
Phe	Tyr	Val	Cys	Pro	Pro	Pro	Thr	Gly	Ala	Thr	Val	Val	Gln	Phe	Glu	115	120	125
Gln	Pro	Arg	Arg	Cys	Pro	Thr	Arg	Pro	Glu	Gly	Gln	Asn	Tyr	Thr	Glu	130	135	140
Gly	Ile	Ala	Val	Val	Phe	Lys	Glu	Asn	Ile	Ala	Pro	Tyr	Lys	Phe	Lys	145	150	155
Ala	Thr	Met	Tyr	Tyr	Lys	Asp	Val	Thr	Val	Ser	Gln	Val	Trp	Phe	Gly	165	170	175
His	Arg	Tyr	Ser	Gln	Phe	Met	Gly	Ile	Phe	Glu	Asp	Arg	Ala	Pro	Val	180	185	190
Pro	Phe	Glu	Glu	Val	Ile	Asp	Lys	Ile	Asn	Ala	Lys	Gly	Val	Cys	Arg	195	200	205
Ser	Thr	Ala	Lys	Tyr	Val	Arg	Asn	Asn	Leu	Glu	Thr	Thr	Ala	Phe	His	210	215	220
Arg	Asp	Asp	His	Glu	Thr	Asp	Met	Glu	Leu	Lys	Pro	Ala	Asn	Ala	Ala	225	230	235
Thr	Arg	Thr	Ser	Arg	Gly	Trp	His	Thr	Thr	Asp	Leu	Lys	Tyr	Asn	Pro	245	250	255
Ser	Arg	Val	Glu	Ala	Phe	His	Arg	Tyr	Gly	Thr	Thr	Val	Asn	Cys	Ile	260	265	270
Val	Glu	Glu	Val	Asp	Ala	Arg	Ser	Val	Tyr	Pro	Tyr	Asp	Glu	Phe	Val	275	280	285
Leu	Ala	Thr	Gly	Asp	Phe	Val	Tyr	Met	Ser	Pro	Phe	Tyr	Gly	Tyr	Arg	290	295	300
Glu	Gly	Ser	His	Thr	Glu	His	Thr	Ser	Tyr	Ala	Ala	Asp	Arg	Phe	Lys	305	310	315
Gln	Val	Asp	Gly	Phe	Tyr	Ala	Arg	Asp	Leu	Thr	Thr	Lys	Ala	Arg	Ala	325	330	335
Thr	Ala	Pro	Thr	Thr	Arg	Asn	Leu	Leu	Thr	Thr	Pro	Lys	Phe	Thr	Val	340	345	350
Ala	Trp	Asp	Trp	Val	Pro	Lys	Arg	Pro	Ser	Val	Cys	Thr	Met	Thr	Lys	355	360	365
Trp	Gln	Glu	Val	Asp	Glu	Met	Leu	Arg	Ser	Glu	Tyr	Gly	Gly	Ser	Phe	370	375	380

Arg	Phe	Ser	Ser	Asp	Ala	Ile	Ser	Thr	Thr	Phe	Thr	Thr	Asn	Leu	Thr	385	390	395	400
Glu	Tyr	Pro	Leu	Ser	Arg	Val	Asp	Leu	Gly	Asp	Cys	Ile	Gly	Lys	Asp	405	410	415	
Ala	Arg	Asp	Ala	Met	Asp	Arg	Ile	Phe	Ala	Arg	Arg	Tyr	Asn	Ala	Thr	420	425	430	
His	Ile	Lys	Val	Gly	Gln	Pro	Gln	Tyr	Tyr	Leu	Ala	Asn	Gly	Gly	Phe	435	440	445	
Leu	Ile	Ala	Tyr	Gln	Pro	Leu	Leu	Ser	Asn	Thr	Leu	Ala	Glu	Leu	Tyr	450	455	460	
Val	Arg	Glu	His	Leu	Arg	Glu	Gln	Ser	Arg	Lys	Pro	Pro	Asn	Pro	Thr	465	470	475	480
Pro	Pro	Pro	Pro	Gly	Ala	Ser	Ala	Asn	Ala	Ser	Val	Glu	Arg	Ile	Lys	485	490	495	
Thr	Thr	Ser	Ser	Ile	Glu	Phe	Ala	Arg	Leu	Gln	Phe	Thr	Tyr	Asn	His	500	505	510	
Ile	Gln	Arg	His	Val	Asn	Asp	Met	Leu	Gly	Arg	Val	Ala	Ile	Ala	Trp	515	520	525	
Cys	Glu	Leu	Gln	Asn	His	Glu	Leu	Thr	Leu	Trp	Asn	Glu	Ala	Arg	Lys	530	535	540	
Leu	Asn	Pro	Asn	Ala	Ile	Ala	Ser	Ala	Thr	Val	Gly	Arg	Arg	Val	Ser	545	550	555	560
Ala	Arg	Met	Leu	Gly	Asp	Val	Met	Ala	Val	Ser	Thr	Cys	Val	Pro	Val	565	570	575	
Ala	Ala	Asp	Asn	Val	Ile	Val	Gln	Asn	Ser	Met	Arg	Ile	Ser	Ser	Arg	580	585	590	
Pro	Gly	Ala	Cys	Tyr	Ser	Arg	Pro	Leu	Val	Ser	Phe	Arg	Tyr	Glu	Asp	595	600	605	
Gln	Gly	Pro	Leu	Val	Glu	Gly	Gln	Leu	Gly	Glu	Asn	Asn	Glu	Leu	Arg	610	615	620	
Leu	Thr	Arg	Asp	Ala	Ile	Glu	Pro	Cys	Thr	Val	Gly	His	Arg	Arg	Tyr	625	630	635	640
Phe	Thr	Phe	Gly	Gly	Gly	Tyr	Val	Tyr	Phe	Glu	Glu	Ser	Ala	Tyr	Ser	645	650	655	
His	Gln	Leu	Ser	Arg	Ala	Asp	Ile	Thr	Thr	Val	Ser	Thr	Phe	Ile	Asp	660	665	670	
Leu	Asn	Ile	Thr	Met	Leu	Glu	Asp	His	Glu	Phe	Val	Pro	Leu	Glu	Val	675	680	685	

Tyr Thr Arg His Glu Ile Lys Asp Ser Gly Leu Leu Asp Tyr Thr Glu
 690 695 700
 Val Gln Arg Arg Asn Gln Leu His Asp Leu Arg Phe Ala Asp Ile Asp
 705 710 715 720
 Thr Val Ile His Ala Asp Ala Asn Ala Ala Met Phe Ala Gly Leu Gly
 725 730 735
 Ala Phe Phe Glu Gly Met Gly Asp Leu Gly Arg Ala Val Gly Lys Val
 740 745 750
 Val Met Gly Ile Val Gly Gly Val Val Ser Ala Val Ser Gly Val Ser
 755 760 765
 Ser Phe Met Ser Asn Pro Phe Gly Ala Leu Ala Val Gly Leu Leu Val
 770 775 780
 Leu Ala Gly Leu Ala Ala Ala Phe Phe Ala Phe Arg Tyr Val Met Arg
 785 790 795 800
 Leu Gln Ser Asn Pro Met Lys Ala Leu Tyr Pro Leu Thr Thr Lys Glu
 805 810 815
 Leu Lys Asn Pro Thr Asn Pro Asp Ala Ser Gly Glu Gly Glu Glu Gly
 820 825 830
 Gly Asp Phe Asp Glu Ala Lys Leu Ala Glu Ala Arg Glu Met Ile Arg
 835 840 845
 Tyr Met Ala Leu Val Ser Ala Met Glu Arg Thr Glu His Lys Ala Lys
 850 855 860
 Lys Lys Gly Thr Ser Ala Leu Leu Ser Ala Lys Val Thr Asp Met Val
 865 870 875 880
 Met Arg Lys Arg Arg Asn Thr Asn Tyr Thr Gln Val Pro Asn Lys Asp
 885 890 895
 Gly Asp Ala Asp Glu Asp Asp Leu
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<210> 57
 <211> 1814
 <212> DNA
 <213> Herpes Virus

<400> 57
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 tatcaccaac gggtcaggct ggatacgtat ggcgggaccg tccatatgga gctgtgtttc 180
 ctgcacgacg tcgagaactt tctaaagcag ctaaactact gccacctcat caccctctcg 240
 cgcggcgcca ccgccgcgct ggagcgcggt cgggagttaa tgggtgggggc ggtgggggtcg 300
 ggccttatcg tcccccgga gcttagcgac ccgtcccacc cctgcgcggt ctgtttcgag 360
 gaactgtgtg tgacggcgaa ccagggggcg acgatcgccc gccgcctggc ggaccgtatc 420
 tgtaaccacg tcaccagca ggcgcaggtg cggctggacg ccaacgagct gcggcggtag 480

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cccggcctgt acgccatcag cgaattgca ttctggctcg cgtccggcga ccgcgccggc 720
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caggagaccg ccgcgggtggc cgtggaactg gcgctgttcg ggcggcgggc ggagcatttc 840
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<210> 58
 <211> 604
 <212> PRT
 <213> Herpes Virus

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<400> 58
Leu Leu Glu Tyr Ala Trp Arg Glu Gly Glu Arg Leu Leu Gly Ser Leu
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Glu Thr Phe Ala Thr Ala Gly Asp Val Ala Ala Phe Phe Thr Glu Thr
      20              25              30

Met Gly Leu Ala Arg Pro Cys Pro Tyr His Gln Arg Val Arg Leu Asp
      35              40              45

Thr Tyr Gly Gly Thr Val His Met Glu Leu Cys Phe Leu His Asp Val
      50              55              60

Glu Asn Phe Leu Lys Gln Leu Asn Tyr Cys His Leu Ile Thr Pro Ser
      65              70              75              80

Arg Gly Ala Thr Ala Ala Leu Glu Arg Val Arg Glu Phe Met Val Gly
      85              90              95

Ala Val Gly Ser Gly Leu Ile Val Pro Pro Glu Leu Ser Asp Pro Ser
      100             105             110

His Pro Cys Ala Val Cys Phe Glu Glu Leu Cys Val Thr Ala Asn Gln
      115             120             125

Gly Ala Thr Ile Ala Arg Arg Leu Ala Asp Arg Ile Cys Asn His Val
      130             135             140

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Thr	Gln	Gln	Ala	Gln	Val	Arg	Leu	Asp	Ala	Asn	Glu	Leu	Arg	Arg	Tyr	145	150	155	160
Leu	Pro	His	Ala	Ala	Gly	Leu	Ser	Asp	Ala	Asp	Arg	Ala	Arg	Ala	Leu	165	170	175	
Ser	Val	Leu	Asp	His	Ala	Leu	Ala	Arg	Thr	Ala	Gly	Gly	Asp	Gly	Gln	180	185	190	
Pro	His	Pro	Ser	Pro	Glu	Asn	Asp	Ser	Val	Arg	Lys	Glu	Ala	Asp	Ala	195	200	205	
Leu	Leu	Glu	Ala	His	Asp	Val	Phe	Gln	Ala	Thr	Thr	Pro	Gly	Leu	Tyr	210	215	220	
Ala	Ile	Ser	Glu	Leu	Arg	Phe	Trp	Leu	Ala	Ser	Gly	Asp	Arg	Ala	Gly	225	230	235	240
Gln	Thr	Thr	Met	Asp	Ala	Phe	Ala	Ser	Asn	Leu	Thr	Ala	Leu	Ala	Arg	245	250	255	
Arg	Glu	Leu	Gln	Gln	Glu	Thr	Ala	Ala	Val	Ala	Val	Glu	Leu	Ala	Leu	260	265	270	
Phe	Gly	Arg	Arg	Ala	Glu	His	Phe	Asp	Arg	Ala	Phe	Gly	Ser	His	Leu	275	280	285	
Ala	Ala	Leu	Asp	Met	Val	Asp	Ala	Leu	Ile	Ile	Gly	Gly	Gln	Ala	Thr	290	295	300	
Ser	Pro	Asp	Asp	Gln	Ile	Glu	Ala	Leu	Ile	Arg	Ala	Cys	Tyr	Asp	His	305	310	315	320
His	Leu	Thr	Thr	Pro	Leu	Leu	Arg	Arg	Leu	Val	Ser	Pro	Glu	Gln	Cys	325	330	335	
Asp	Glu	Glu	Ala	Leu	Arg	Arg	Val	Leu	Ala	Arg	Met	Gly	Ala	Gly	Gly	340	345	350	
Ala	Ala	Asp	Ala	Pro	Lys	Gly	Gly	Ala	Gly	Pro	Asp	Asp	Asp	Gly	Asp	355	360	365	
Arg	Val	Ala	Val	Glu	Glu	Gly	Ala	Arg	Gly	Leu	Gly	Ala	Pro	Gly	Gly	370	375	380	
Gly	Gly	Glu	Asp	Glu	Asp	Arg	Arg	Arg	Gly	Pro	Gly	Gly	Gln	Gly	Pro	385	390	395	400
Glu	Thr	Trp	Gly	Asp	Ile	Ala	Thr	Gln	Ala	Ala	Ala	Asp	Val	Arg	Glu	405	410	415	
Arg	Arg	Arg	Leu	Tyr	Ala	Asp	Arg	Leu	Thr	Lys	Arg	Ser	Leu	Ala	Ser	420	425	430	
Leu	Gly	Arg	Cys	Val	Arg	Glu	Gln	Arg	Gly	Glu	Leu	Glu	Lys	Met	Leu	435	440	445	

Arg Val Ser Val His Gly Glu Val Leu Pro Ala Thr Phe Ala Ala Val
450 455 460

Ala Asn Gly Phe Ala Ala Arg Ala Arg Phe Cys Ala Leu Thr Ala Gly
465 470 475 480

Ala Gly Thr Val Ile Asp Asn Arg Ser Ala Pro Gly Val Phe Asp Ala
485 490 495

His Arg Phe Met Arg Ala Ser Leu Leu Arg His Gln Val Asp Pro Ala
500 505 510

Leu Leu Pro Ser Ile Thr His Arg Phe Phe Glu Leu Val Asn Gly Pro
515 520 525

Leu Phe Asp His Ser Thr His Ser Phe Ala Gln Pro Pro Asn Thr Ala
530 535 540

Leu Tyr Tyr Ser Val Glu Asn Val Gly Leu Leu Pro His Leu Lys Glu
545 550 555 560

Glu Leu Ala Arg Phe Ile Met Gly Ala Gly Gly Ser Gly Ala Asp Trp
565 570 575

Ala Val Ser Glu Phe Gln Arg Phe Tyr Cys Phe Asp Gly Ile Ser Gly
580 585 590

Ile Thr Pro Thr Gln Arg Ala Ala Trp Arg Tyr Ile
595 600

<210> 59
<211> 1068
<212> DNA
<213> Herpes Virus

<400> 59
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<400> 60															
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Arg	Gly	Lys	Leu	Pro	Gln	Leu	Lys	Leu	Asn	Ala	Leu	Gln	Val	Arg	Ala
			20					25					30		
Leu	Arg	Arg	Arg	Leu	Arg	Pro	Gly	Leu	Glu	Ala	Gln	Ala	Gly	Ala	Phe
		35					40					45			
Leu	Thr	Pro	Leu	Ser	Val	Thr	Leu	Glu	Leu	Leu	Leu	Glu	Tyr	Ala	Trp
	50					55					60				
Arg	Glu	Gly	Glu	Arg	Leu	Leu	Gly	Ser	Leu	Glu	Thr	Phe	Ala	Thr	Ala
65					70					75					80
Gly	Asp	Val	Ala	Ala	Phe	Phe	Thr	Glu	Thr	Met	Gly	Leu	Ala	Arg	Pro
				85					90					95	
Cys	Pro	Tyr	His	Gln	Arg	Val	Arg	Leu	Asp	Thr	Tyr	Gly	Gly	Thr	Val
			100					105					110		
His	Met	Glu	Leu	Cys	Phe	Leu	His	Asp	Val	Glu	Asn	Phe	Leu	Lys	Gln
		115					120					125			
Leu	Asn	Tyr	Cys	His	Leu	Ile	Thr	Pro	Ser	Arg	Gly	Ala	Thr	Ala	Ala
	130					135					140				
Leu	Glu	Arg	Val	Arg	Glu	Phe	Met	Val	Gly	Ala	Val	Gly	Ser	Gly	Leu
145					150					155					160
Ile	Val	Pro	Pro	Glu	Leu	Ser	Asp	Pro	Ser	His	Pro	Cys	Ala	Val	Cys
				165					170					175	
Phe	Glu	Glu	Leu	Cys	Val	Thr	Ala	Asn	Gln	Gly	Ala	Thr	Ile	Ala	Arg
			180					185					190		
Arg	Leu	Ala	Asp	Arg	Ile	Cys	Asn	His	Val	Thr	Gln	Gln	Ala	Gln	Val
		195					200					205			
Arg	Leu	Asp	Ala	Asn	Glu	Leu	Arg	Arg	Tyr	Leu	Pro	His	Ala	Ala	Gly
	210					215					220				
Leu	Ser	Asp	Ala	Asp	Arg	Ala	Arg	Ala	Leu	Ser	Val	Leu	Asp	His	Ala
225					230					235					240
Leu	Ala	Arg	Thr	Ala	Gly	Gly	Asp	Gly	Gln	Pro	His	Pro	Ser	Pro	Glu
				245					250					255	
Asn	Asp	Ser	Val	Arg	Lys	Glu	Ala	Asp	Ala	Leu	Leu	Glu	Ala	His	Asp
			260					265					270		

Val Phe Gln Ala Thr Thr Pro Gly Leu Tyr Ala Ile Ser Glu Leu Arg
275 280 285

Phe Trp Leu Ala Ser Gly Asp Arg Ala Gly Gln Thr Thr Met Asp Ala
290 295 300

Phe Ala Ser Asn Leu Thr Ala Leu Ala Arg Arg Glu Leu Gln Gln Glu
305 310 315 320

Thr Ala Ala Val Ala Val Glu Leu Ala Leu Phe Gly Arg Arg Ala Glu
325 330 335

His Phe Asp Arg Ala Phe Gly Ser His Leu Ala Ala Leu Asp Met Val
340 345 350

Asp Ala Leu Ile
355

<210> 61
<211> 369
<212> DNA
<213> Herpes Virus

<400> 61
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ctgtattaca gcgtcgagaa cgtggggctc ctgccgcacc tgaaggagga gctcgcccgg 360
ttcatcatg 369

<210> 62
<211> 123
<212> PRT
<213> Herpes Virus

<400> 62
Glu Lys Met Leu Arg Val Ser Val His Gly Glu Val Leu Pro Ala Thr
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Phe Ala Ala Val Ala Asn Gly Phe Ala Ala Arg Ala Arg Phe Cys Ala
20 25 30

Leu Thr Ala Gly Ala Gly Thr Val Ile Asp Asn Arg Ser Ala Pro Gly
35 40 45

Val Phe Asp Ala His Arg Phe Met Arg Ala Ser Leu Leu Arg His Gln
50 55 60

Val Asp Pro Ala Leu Leu Pro Ser Ile Thr His Arg Phe Phe Glu Leu
65 70 75 80

Val Asn Gly Pro Leu Phe Asp His Ser Thr His Ser Phe Ala Gln Pro

Pro Asn Thr Ala Leu Tyr Tyr Ser Val Glu Asn Val Gly Leu Leu Pro
 100 105 110

His Leu Lys Glu Glu Leu Ala Arg Phe Ile Met
 115 120

<210> 63

<211> 2358

<212> DNA

<213> Herpes Virus

<400> 63

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<210> 64
<211> 785
<212> PRT
<213> Herpes Virus

<400> 64

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Ala	Leu	Leu	Gly	Gln	Val	Gln	Thr	Tyr	Val	Phe	Gln	Ile	Glu	Leu	Leu
			20					25					30		
Arg	Arg	Cys	Asp	Pro	His	Ile	Gly	Arg	Gly	Lys	Leu	Pro	Gln	Leu	Lys
		35					40					45			
Leu	Asn	Ala	Leu	Gln	Val	Arg	Ala	Leu	Arg	Arg	Arg	Leu	Arg	Pro	Gly
	50					55					60				
Leu	Glu	Ala	Gln	Ala	Gly	Ala	Phe	Leu	Thr	Pro	Leu	Ser	Val	Thr	Leu
65					70					75					80
Glu	Leu	Leu	Leu	Glu	Tyr	Ala	Trp	Arg	Glu	Gly	Glu	Arg	Leu	Leu	Gly
				85					90					95	
Ser	Leu	Glu	Thr	Phe	Ala	Thr	Ala	Gly	Asp	Val	Ala	Ala	Phe	Phe	Thr
			100					105					110		
Glu	Thr	Met	Gly	Leu	Ala	Arg	Pro	Cys	Pro	Tyr	His	Gln	Arg	Val	Arg
	115						120					125			
Leu	Asp	Thr	Tyr	Gly	Gly	Thr	Val	His	Met	Glu	Leu	Cys	Phe	Leu	His
	130					135					140				
Asp	Val	Glu	Asn	Phe	Leu	Lys	Gln	Leu	Asn	Tyr	Cys	His	Leu	Ile	Thr
145					150					155					160
Pro	Ser	Arg	Gly	Ala	Thr	Ala	Ala	Leu	Glu	Arg	Val	Arg	Glu	Phe	Met
				165					170					175	
Val	Gly	Ala	Val	Gly	Ser	Gly	Leu	Ile	Val	Pro	Pro	Glu	Leu	Ser	Asp
			180					185					190		
Pro	Ser	His	Pro	Cys	Ala	Val	Cys	Phe	Glu	Glu	Leu	Cys	Val	Thr	Ala
		195					200					205			
Asn	Gln	Gly	Ala	Thr	Ile	Ala	Arg	Arg	Leu	Ala	Asp	Arg	Ile	Cys	Asn
	210					215					220				
His	Val	Thr	Gln	Gln	Ala	Gln	Val	Arg	Leu	Asp	Ala	Asn	Glu	Leu	Arg
225					230					235					240
Arg	Tyr	Leu	Pro	His	Ala	Ala	Gly	Leu	Ser	Asp	Ala	Asp	Arg	Ala	Arg
				245					250					255	
Ala	Leu	Ser	Val	Leu	Asp	His	Ala	Leu	Ala	Arg	Thr	Ala	Gly	Gly	Asp
			260					265					270		

Gly	Gln	Pro	His	Pro	Ser	Pro	Glu	Asn	Asp	Ser	Val	Arg	Lys	Glu	Ala	275	280	285
Asp	Ala	Leu	Leu	Glu	Ala	His	Asp	Val	Phe	Gln	Ala	Thr	Thr	Pro	Gly	290	295	300
Leu	Tyr	Ala	Ile	Ser	Glu	Leu	Arg	Phe	Trp	Leu	Ala	Ser	Gly	Asp	Arg	305	310	315
Ala	Gly	Gln	Thr	Thr	Met	Asp	Ala	Phe	Ala	Ser	Asn	Leu	Thr	Ala	Leu	325	330	335
Ala	Arg	Arg	Glu	Leu	Gln	Gln	Glu	Thr	Ala	Ala	Val	Ala	Val	Glu	Leu	340	345	350
Ala	Leu	Phe	Gly	Arg	Arg	Ala	Glu	His	Phe	Asp	Arg	Ala	Phe	Gly	Ser	355	360	365
His	Leu	Ala	Ala	Leu	Asp	Met	Val	Asp	Ala	Leu	Ile	Ile	Gly	Gly	Gln	370	375	380
Ala	Thr	Ser	Pro	Asp	Asp	Gln	Ile	Glu	Ala	Leu	Ile	Arg	Ala	Cys	Tyr	385	390	395
Asp	His	His	Leu	Thr	Thr	Pro	Leu	Leu	Arg	Arg	Leu	Val	Ser	Pro	Glu	405	410	415
Gln	Cys	Asp	Glu	Glu	Ala	Leu	Arg	Arg	Val	Leu	Ala	Arg	Met	Gly	Ala	420	425	430
Gly	Gly	Ala	Ala	Asp	Ala	Pro	Lys	Gly	Gly	Ala	Gly	Pro	Asp	Asp	Asp	435	440	445
Gly	Asp	Arg	Val	Ala	Val	Glu	Glu	Gly	Ala	Arg	Gly	Leu	Gly	Ala	Pro	450	455	460
Gly	Gly	Gly	Gly	Glu	Asp	Glu	Asp	Arg	Arg	Arg	Gly	Pro	Gly	Gly	Gln	465	470	475
Gly	Pro	Glu	Thr	Trp	Gly	Asp	Ile	Ala	Thr	Gln	Ala	Ala	Ala	Asp	Val	485	490	495
Arg	Glu	Arg	Arg	Arg	Leu	Tyr	Ala	Asp	Arg	Leu	Thr	Lys	Arg	Ser	Leu	500	505	510
Ala	Ser	Leu	Gly	Arg	Cys	Val	Arg	Glu	Gln	Arg	Gly	Glu	Leu	Glu	Lys	515	520	525
Met	Leu	Arg	Val	Ser	Val	His	Gly	Glu	Val	Leu	Pro	Ala	Thr	Phe	Ala	530	535	540
Ala	Val	Ala	Asn	Gly	Phe	Ala	Ala	Arg	Ala	Arg	Phe	Cys	Ala	Leu	Thr	545	550	555
Ala	Gly	Ala	Gly	Thr	Val	Ile	Asp	Asn	Arg	Ser	Ala	Pro	Gly	Val	Phe	565	570	575

Asp Ala His Arg Phe Met Arg Ala Ser Leu Leu Arg His Gln Val Asp
 580 585 590
 Pro Ala Leu Leu Pro Ser Ile Thr His Arg Phe Phe Glu Leu Val Asn
 595 600 605
 Gly Pro Leu Phe Asp His Ser Thr His Ser Phe Ala Gln Pro Pro Asn
 610 615 620
 Thr Ala Leu Tyr Tyr Ser Val Glu Asn Val Gly Leu Leu Pro His Leu
 625 630 635 640
 Lys Glu Glu Leu Ala Arg Phe Ile Met Gly Ala Gly Gly Ser Gly Ala
 645 650 655
 Asp Trp Ala Val Ser Glu Phe Gln Arg Phe Tyr Cys Phe Asp Gly Ile
 660 665 670
 Ser Gly Ile Thr Pro Thr Gln Arg Ala Ala Trp Arg Tyr Ile Arg Glu
 675 680 685
 Leu Ile Ile Ala Thr Thr Leu Phe Ala Ser Val Tyr Arg Cys Gly Glu
 690 695 700
 Leu Glu Leu Arg Arg Pro Asp Cys Ser Arg Pro Thr Ser Glu Gly Arg
 705 710 715 720
 Tyr Arg Tyr Pro Pro Gly Val Tyr Leu Thr Tyr Asp Ser Asp Cys Pro
 725 730 735
 Leu Val Ala Ile Val Glu Ser Ala Pro Asp Gly Cys Ile Gly Pro Arg
 740 745 750
 Ser Val Val Val Tyr Asp Arg Asp Val Phe Ser Ile Leu Tyr Ser Val
 755 760 765
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 Pro
 785

<210> 65

<211> 514

<212> DNA

<213> Herpes Virus

<400> 65

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514

<210> 66
<211> 171
<212> PRT
<213> Herpes Virus

<400> 66
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20 25 30
Pro Lys Asp His Ser Lys Pro Ser Phe Tyr Arg Phe Phe Leu Val Pro
35 40 45
Gly Thr His Val Ala Ala Asn Pro Gln Val Asp Arg Glu Gly His Val
50 55 60
Val Pro Gly Phe Glu Gly Arg Pro Thr Ala Pro Leu Val Gly Gly Thr
65 70 75 80
Gln Glu Phe Ala Gly Glu His Leu Ala Met Leu Cys Gly Phe Ser Pro
85 90 95
Ala Leu Leu Ala Lys Met Leu Phe Tyr Leu Glu Arg Cys Asp Gly Gly
100 105 110
Val Ile Val Gly Arg Gln Glu Met Asp Val Phe Arg Tyr Val Ala Asp
115 120 125
Ser Asn Gln Thr Asp Val Pro Cys Asn Leu Cys Thr Phe Asp Thr Arg
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His Ala Cys Val His Thr Thr Leu Met Arg Leu Arg Ala Arg His Pro
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Lys Phe Ala Ser Ala Ala Arg Gly Ala Ile Gly
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<210> 67
<211> 3591
<212> DNA
<213> Herpes Virus

<400> 67
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<210> 68
 <211> 1196
 <212> PRT

<213> Herpes Virus

<400> 68

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Leu	Leu	Ala	Leu	Leu	Ser	Ala	Arg	Ser	Gly	Asp	Ala	Asp	Val	Ala	Val
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Ala	Pro	Leu	Val	Val	Gly	Leu	Thr	Val	Glu	Ser	Gly	Phe	Glu	Ala	Asn
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Val	Ala	Val	Val	Val	Gly	Ser	Arg	Thr	Thr	Gly	Leu	Gly	Gly	Thr	Ala
65					70					75					80
Val	Ser	Leu	Lys	Leu	Thr	Pro	Ser	His	Tyr	Ser	Ser	Ser	Val	Tyr	Val
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Phe	His	Gly	Gly	Arg	His	Leu	Asp	Pro	Ser	Thr	Gln	Ala	Pro	Asn	Leu
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Thr	Arg	Leu	Cys	Glu	Arg	Ala	Arg	Arg	His	Phe	Gly	Phe	Ser	Asp	Tyr
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Thr	Pro	Arg	Pro	Gly	Asp	Leu	Lys	His	Glu	Thr	Thr	Gly	Glu	Ala	Leu
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Cys	Glu	Arg	Leu	Gly	Leu	Asp	Pro	Asp	Arg	Ala	Leu	Leu	Tyr	Leu	Val
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Val	Thr	Glu	Gly	Phe	Lys	Glu	Ala	Val	Cys	Ile	Asn	Asn	Thr	Phe	Leu
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His	Leu	Gly	Gly	Ser	Asp	Lys	Val	Thr	Ile	Gly	Gly	Ala	Glu	Val	His
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Arg	Ile	Pro	Val	Tyr	Pro	Leu	Gln	Leu	Phe	Met	Pro	Asp	Phe	Ser	Arg
		195					200					205			
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Val	Asp	Ala	Val	Ala	Arg	Ala	Ala	Ala	His	Leu	Ala	Phe	Asp	Glu	Asn
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Leu	Thr	Glu	Val	Asp	Asp	Ala	Gly	Pro	Ala	Asp	Pro	Lys	Asp	His	Ser	385	390	395
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Gly	Arg	Pro	Thr	Ala	Pro	Leu	Val	Gly	Gly	Thr	Gln	Glu	Phe	Ala	Gly	435	440	445
Glu	His	Leu	Ala	Met	Leu	Cys	Gly	Phe	Ser	Pro	Ala	Leu	Leu	Ala	Lys	450	455	460
Met	Leu	Phe	Tyr	Leu	Glu	Arg	Cys	Asp	Gly	Gly	Val	Ile	Val	Gly	Arg	465	470	475
Gln	Glu	Met	Asp	Val	Phe	Arg	Tyr	Val	Ala	Asp	Ser	Asn	Gln	Thr	Asp	485	490	495
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Thr	Thr	Leu	Met	Arg	Leu	Arg	Ala	Arg	His	Pro	Lys	Phe	Ala	Ser	Ala	515	520	525
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Ala	Asp	Gly	Ser	Glu	Thr	Ala	Arg	Thr	Ile	Met	Gln	Glu	Thr	Tyr	Arg	565	570	575
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Asp	Arg	Glu	Val	Glu	Gln	Leu	Met	Arg	Asn	Leu	Val	Glu	Gly	Arg	Asn	625	630	635	640
Phe	Lys	Phe	Arg	Asp	Gly	Leu	Gly	Glu	Ala	Asn	His	Ala	Met	Ser	Leu	645	650	655	
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Glu	Ser	Ser	Phe	Glu	Gly	Asp	Val	Ala	Arg	Val	Thr	Leu	Gly	Phe	Pro	755	760	765	
Lys	Glu	Leu	Arg	Val	Lys	Ser	Arg	Val	Leu	Phe	Ala	Gly	Ala	Ser	Ala	770	775	780	
Asn	Ala	Ser	Glu	Ala	Ala	Lys	Ala	Arg	Val	Ala	Ser	Leu	Gln	Ser	Ala	785	790	795	800
Tyr	Gln	Lys	Pro	Asp	Lys	Arg	Val	Asp	Ile	Leu	Leu	Gly	Pro	Leu	Gly	805	810	815	
Phe	Leu	Leu	Lys	Gln	Phe	His	Ala	Ala	Ile	Phe	Pro	Asn	Gly	Lys	Pro	820	825	830	
Pro	Gly	Ser	Asn	Gln	Pro	Asn	Pro	Gln	Trp	Phe	Trp	Thr	Ala	Leu	Gln	835	840	845	
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Ile	Ala	Phe	Ile	Lys	Lys	Phe	Ser	Leu	Asp	Tyr	Gly	Ala	Ile	Asn	Phe	865	870	875	880
Ile	Asn	Leu	Ala	Pro	Asn	Asn	Val	Ser	Glu	Leu	Ala	Met	Tyr	Tyr	Met	885	890	895	

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Thr Leu Thr Ala Ile Ile Ala Gly Ser Arg Arg Pro Pro Ser Val Gln	915	920	925
Ala Ala Ala Ala Trp Ser Ala Gln Gly Gly Ala Gly Leu Glu Ala Gly	930	935	940
Ala Arg Ala Leu Met Asp Ala Val Asp Ala His Pro Gly Ala Trp Thr	945	950	955
Ser Met Phe Ala Ser Cys Asn Leu Leu Arg Pro Val Met Ala Ala Arg	965	970	975
Pro Met Val Val Leu Gly Leu Ser Ile Ser Lys Tyr Tyr Gly Met Ala	980	985	990
Gly Asn Asp Arg Val Phe Gln Ala Gly Asn Trp Ala Ser Leu Met Gly	995	1000	1005
Gly Lys Asn Ala Cys Pro Leu Leu Ile Phe Asp Arg Thr Arg Lys Phe	1010	1015	1020
Val Leu Ala Cys Pro Arg Ala Gly Phe Val Cys Ala Ala Ser Asn Leu	1025	1030	1035
Gly Gly Gly Ala His Glu Ser Ser Leu Cys Glu Gln Leu Arg Gly Ile	1045	1050	1055
Ile Ser Glu Gly Gly Ala Ala Val Ala Ser Ser Val Phe Val Ala Thr	1060	1065	1070
Val Lys Ser Leu Gly Pro Arg Thr Gln Gln Leu Gln Ile Glu Asp Trp	1075	1080	1085
Leu Ala Leu Leu Glu Asp Glu Tyr Leu Ser Glu Glu Met Met Glu Leu	1090	1095	1100
Thr Ala Arg Ala Leu Glu Arg Gly Asn Gly Glu Trp Ser Thr Asp Ala	1105	1110	1115
Ala Leu Glu Val Ala His Glu Ala Glu Ala Leu Val Ser Gln Leu Gly	1125	1130	1135
Asn Ala Gly Glu Val Phe Asn Phe Gly Asp Phe Gly Cys Glu Asp Asp	1140	1145	1150
Asn Ala Thr Pro Phe Gly Gly Pro Gly Ala Pro Gly Pro Ala Phe Ala	1155	1160	1165
Gly Arg Lys Arg Ala Phe His Gly Asp Asp Pro Phe Gly Glu Gly Pro	1170	1175	1180
Pro Asp Lys Lys Gly Asp Leu Thr Leu Asp Met Leu	1185	1190	1195

<210> 69
 <211> 1323
 <212> DNA
 <213> Herpes Virus

<400> 69
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<210> 70
 <211> 441
 <212> PRT
 <213> Herpes Virus

<400> 70
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 35 40 45
 Thr Val Pro Ala Ser Ser Gln Ala Leu Glu Ala Leu Lys Thr Arg Arg
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 Ser Pro Glu Pro Pro Gly Ala Asp Leu Ala Gln Leu Phe Glu Ala His
 65 70 75 80
 Pro Asn Val Ala Ala Thr Ala Val Lys Phe Thr Ala Cys Ser Ala Ala
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100					105					110					
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Thr	His	Thr	Gln	Ala	Gly	Val	Ala	Gly	Pro	Ala	Ala	Ala	Leu	Leu	Glu
145		150			155			160							
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Ala	Ser	Thr	Arg	Leu	Ser	Leu	Ala	Asp	Val	Ala	Ala	His	Leu	Pro	Leu
180			185			190									
Val	Gln	His	Val	Leu	Asp	Glu	Asn	Ser	Leu	Ile	Gly	Arg	Leu	Ala	Leu
195			200			205									
Ala	Lys	Leu	Ile	Leu	Val	Ala	Arg	Asp	Val	Ile	Arg	Glu	Thr	Asp	Ala
210		215			220										
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245					250					255					
Gln	Ala	His	Pro	Asp	Thr	Leu	Phe	Ala	Pro	Ala	Thr	Pro	Thr	His	Pro
260			265			270									
Glu	Pro	Leu	Leu	Tyr	Arg	Val	Gln	Ala	Leu	Ala	Lys	Phe	Ala	Arg	Gly
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Arg	Pro	Pro	Pro	Leu	Gly	Pro	Glu	Ala	Val	Gln	Val	Arg	Leu	Glu	Glu
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370		375			380										
Asn	Asn	Asp	Arg	Arg	Phe	His	Val	Ala	Ser	Ala	Ala	Val	Val	Pro	Val
385		390			395			400							
Val	Gln	Leu	Leu	Glu	Ser	Leu	Pro	Val	Phe	Asp	Gln	His	Thr	Arg	Asp

405

410

415

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Pro Thr Ala Ile Leu Leu Arg Asp Leu
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<210> 71

<211> 9495

<212> DNA

<213> Herpes Virus

<400> 71

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 Ala Arg Asn Gln Phe Ala Pro Asp Leu Glu Pro Gly Gly Ser Val Ser
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 Cys Met Arg Ser Ser Leu Ser Phe Leu Ser Leu Ile Phe Asp Val Gly
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 Pro Arg Asp Val Leu Ser Ala Glu Ala Ile Glu Gly Cys Leu Val Glu
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 Gly Gly Glu Trp Thr Arg Ala Thr Ala Gly Pro Gly Pro Pro Arg Met
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 Cys Ser Ile Val Glu Leu Pro Asn Phe Leu Glu Tyr Pro Gly Ala Arg
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 Val Pro Ser Gly Pro Glu Pro Ala Ala Pro Ala Asp Leu Thr Ala Ala

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Asp Val Ile Arg Glu Thr Asp Ala Phe Tyr Gly Glu Leu Ala Asp Leu						
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Glu Leu Gln Leu Arg Ala Ala Pro Pro Ala Asn Leu Tyr Thr Arg Leu						
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Ala Ser Ala Ala Val Val Pro Val Val Gln Leu Leu Glu Ser Leu Pro						

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Gly Val Pro Ala Leu Arg Gln Tyr Val Pro Phe Phe Gln Lys Gly Tyr 1505	1510	1515 1520
Ala Glu Tyr Val Asp Ile Arg Asp Arg Leu Asp Ala Leu Arg Ala Asp 1525	1530	1535
Ala Arg Arg Ala Ile Gly Ser Val Ala Leu Asp Leu Ala Ala Ala Ala 1540	1545	1550
Glu Glu Ile Ser Ala Val Arg Asn Asp Pro Ala Ala Ala Ala Glu Leu 1555	1560	1565
Val Arg Ala Gly Val Thr Leu Pro Cys Pro Ser Glu Asp Ala Leu Val 1570	1575	1580
Ala Cys Val Ala Ala Leu Glu Arg Val Asp Gln Ser Pro Val Lys Asp 1585	1590	1595 1600
Thr Ala Tyr Ala His Tyr Val Ala Phe Val Thr Arg Gln Asp Leu Ala 1605	1610	1615
Asp Thr Lys Asp Ala Val Val Arg Ala Lys Gln Gln Arg Ala Glu Ala 1620	1625	1630
Thr Glu Arg Val Thr Ala Gly Leu Arg Glu Val Leu Ala Ala Arg Glu 1635	1640	1645
Arg Arg Ala Gln Leu Glu Ala Glu Gly Leu Ala Asn Leu Lys Thr Leu 1650	1655	1660
Leu Lys Val Val Ala Val Pro Ala Thr Val Ala Lys Thr Leu Asp Gln 1665	1670	1675 1680
Ala Arg Ser Ala Glu Glu Ile Ala Asp Gln Val Glu Ile Leu Val Asp 1685	1690	1695
Gln Thr Glu Lys Ala Arg Glu Leu Asp Val Gln Ala Val Ala Trp Leu 1700	1705	1710
Glu His Ala Gln Arg Thr Phe Glu Thr His Pro Leu Ser Ala Ala Ser 1715	1720	1725
Gly Asp Gly Pro Gly Leu Leu Thr Arg Gln Gly Ala Arg Leu Gln Ala 1730	1735	1740
Leu Phe Asp Thr Arg Arg Arg Val Glu Ala Leu Arg Arg Ser Leu Glu 1745	1750	1755 1760
Glu Ala Glu Ala Glu Trp Asp Glu Val Trp Gly Arg Phe Gly Arg Val		

1765	1770	1775
Arg Gly Gly Ala Trp Lys Ser Pro Glu Gly Phe Arg Ala Ala Cys Glu 1780	1785	1790
Gln Leu Arg Ala Leu Gln Asp Thr Thr Asn Thr Val Ser Gly Leu Arg 1795	1800	1805
Ala Gln Arg Asp Tyr Glu Arg Leu Pro Ala Lys Tyr Gln Gly Val Leu 1810	1815	1820
Gly Ala Lys Ser Ala Glu Arg Ala Gly Ala Val Glu Glu Leu Gly Gly 1825	1830	1835 1840
Arg Val Ala Gln His Ala Asp Leu Ser Ala Arg Leu Arg Asp Glu Val 1845	1850	1855
Val Pro Arg Val Ala Trp Glu Met Asn Phe Asp Thr Leu Gly Gly Leu 1860	1865	1870
Leu Ala Glu Phe Asp Ala Val Ala Gly Asp Leu Ala Pro Trp Ala Val 1875	1880	1885
Glu Glu Phe Arg Gly Ala Arg Glu Leu Ile Gln Arg Arg Met Gly Leu 1890	1895	1900
Tyr Ser Ala Tyr Ala Lys Ala Thr Gly Gln Thr Gly Ala Gly Ala Ala 1905	1910	1915 1920
Ala Ala Pro Ala Pro Leu Leu Val Asp Leu Arg Ala Leu Asp Ala Arg 1925	1930	1935
Ala Arg Ala Ser Ala Pro Pro Gly Gln Glu Ala Asp Pro Gln Met Leu 1940	1945	1950
Arg Arg Arg Gly Glu Ala Tyr Leu Arg Val Ser Gly Gly Pro Gly Pro 1955	1960	1965
Leu Val Leu Arg Glu Ala Thr Ser Thr Leu Asp Arg Pro Phe Ala Pro 1970	1975	1980
Ser Phe Leu Val Pro Asp Gly Thr Pro Leu Gln Tyr Ala Leu Cys Phe 1985	1990	1995 2000
Pro Ala Val Thr Asp Lys Leu Gly Ala Leu Leu Met Cys Pro Glu Ala 2005	2010	2015
Ala Cys Ile Arg Pro Pro Leu Pro Thr Asp Thr Leu Glu Ser Ala Ser 2020	2025	2030
Thr Val Thr Ala Met Tyr Val Leu Thr Val Ile Asn Arg Leu Gln Leu 2035	2040	2045
Ala Leu Ser Asp Ala Gln Ala Ala Asn Phe Gln Leu Phe Gly Arg Phe 2050	2055	2060
Val Arg His Arg Gln Ala Arg Trp Gly Ala Ser Met Asp Ala Ala Ala		

2065	2070	2075	2080
Glu Leu Tyr Val	Ala Leu Val	Ala Thr Thr Leu Thr Arg	Glu Phe Gly
2085		2090	2095
Cys Arg Trp Ala	Gln Leu Glu Trp Gly	Gly Asp Ala Ala	Ala Pro Gly
2100	2105	2110	
Pro Pro Leu Gly	Pro Gln Ser Ser Thr Arg	His Arg Val Ser	Phe Asn
2115	2120	2125	
Glu Asn Asp Val	Leu Val Ala Leu Val	Ala Ser Ser Pro	Glu His Ile
2130	2135	2140	
Tyr Thr Phe Trp	Arg Leu Asp Leu Val	Arg Gln His Glu Tyr	Met His
2145	2150	2155	2160
Leu Thr Leu Pro	Arg Ala Phe Gln Asn	Ala Ala Asp Ser	Met Leu Phe
2165	2170	2175	
Val Gln Arg Leu	Thr Pro His Pro Asp	Ala Arg Ile Arg	Val Leu Pro
2180	2185	2190	
Ala Phe Ser Ala	Gly Gly Pro Pro Thr	Arg Gly Leu Met	Phe Gly Thr
2195	2200	2205	
Arg Leu Ala Asp	Trp Arg Arg Gly Lys	Leu Ser Glu Thr	Asp Pro Leu
2210	2215	2220	
Ala Pro Trp Arg	Ser Val Pro Glu Leu	Gly Thr Glu Arg	Gly Ala Ala
2225	2230	2235	2240
Leu Gly Lys Leu	Ser Pro Ala Gln Ala	Leu Ala Ala Val	Ser Val Leu
2245	2250	2255	
Gly Arg Met Cys	Leu Pro Ser Thr Ala	Leu Val Ala Leu	Trp Thr Cys
2260	2265	2270	
Met Phe Pro Asp	Asp Tyr Thr Glu Tyr	Asp Ser Phe Asp	Ala Leu Leu
2275	2280	2285	
Thr Ala Arg Leu	Glu Ser Gly Gln Thr	Leu Ser Pro Ser	Gly Gly Arg
2290	2295	2300	
Glu Ala Ser Pro	Pro Ala Pro Pro Asn	Ala Leu Tyr Arg	Pro Thr Gly
2305	2310	2315	2320
Gln His Val Ala	Val Pro Ala Ala Ala	Thr His Arg Thr	Pro Ala Ala
2325	2330	2335	
Arg Val Thr Ala	Met Asp Leu Val Leu	Ala Ala Val Leu	Leu Gly Ala
2340	2345	2350	
Pro Val Val Val	Ala Leu Arg Asn Thr	Thr Ala Phe Ser	Arg Glu Ser
2355	2360	2365	
Glu Leu Glu Leu	Cys Leu Thr Leu Phe	Asp Ser Arg Ala	Arg Gly Pro

2370	2375	2380
Asp Ala Ala Leu Arg Asp Ala Val Ser Ser Asp Ile Glu Thr Trp Ala		
2385	2390	2395 2400
Val Arg Leu Leu His Ala Asp Leu Asn Pro Ile Glu Asn Ala Cys Leu		
2405	2410	2415
Ala Ala Gln Leu Pro Arg Leu Ser Ala Leu Ile Ala Glu Arg Pro Leu		
2420	2425	2430
Ala Arg Gly Pro Pro Cys Leu Val Leu Val Asp Ile Ser Met Thr Pro		
2435	2440	2445
Val Ala Val Leu Trp Glu Asn Pro Asp Pro Pro Gly Pro Pro Asp Val		
2450	2455	2460
Arg Phe Val Gly Ser Glu Ala Thr Glu Glu Leu Pro Phe Val Ala Gly		
2465	2470	2475 2480
Gly Glu Asp Val Leu Ala Ala Ser Ala Thr Asp Glu Asp Pro Phe Leu		
2485	2490	2495
Ala Arg Ala Ile Leu Gly Arg Pro Phe Asp Ala Ser Leu Leu Ser Gly		
2500	2505	2510
Glu Leu Phe Pro Gly His Pro Val Tyr Gln Arg Ala Pro Asp Asp Gln		
2515	2520	2525
Ser Pro Ser Val Pro Asn Pro Thr Pro Gly Pro Val Asp Leu Val Gly		
2530	2535	2540
Ala Glu Gly Ser Leu Gly Pro Gly Ser Leu Ala Pro Thr Leu Phe Thr		
2545	2550	2555 2560
Asp Ala Thr Pro Gly Glu Pro Val Pro Pro Arg Met Trp Ala Trp Ile		
2565	2570	2575
His Gly Leu Glu Glu Leu Ala Ser Asp Asp Ser Gly Gly Pro Ala Pro		
2580	2585	2590
Leu Leu Ala Pro Asp Pro Leu Ser Pro Thr Ala Asp Gln Ser Val Pro		
2595	2600	2605
Thr Ser Gln Cys Ala Pro Arg Pro Pro Gly Pro Ala Val Thr Ala Arg		
2610	2615	2620
Glu Ala Arg Pro Gly Val Pro Ala Glu Ser Thr Arg Pro Ala Pro Val		
2625	2630	2635 2640
Gly Pro Arg Asp Asp Phe Arg Arg Leu Pro Ser Pro Gln Ser Ser Pro		
2645	2650	2655
Ala Pro Pro Asp Ala Thr Ala Pro Arg Pro Pro Ala Ser Ser Arg Ala		
2660	2665	2670
Ser Ala Ala Ser Ser Ser Gly Ser Arg Ala Arg Arg His Arg Arg Ala		

2675	2680	2685
Arg Ser Leu Ala Arg Ala Thr Gln Ala Ser Ala Thr Thr Gln Gly Trp 2690	2695	2700
Arg Pro Pro Ala Leu Pro Asp Thr Val Ala Pro Val Thr Asp Phe Ala 2705	2710	2715 2720
Arg Pro Pro Ala Pro Pro Lys Pro Pro Glu Pro Ala Pro His Ala Leu 2725	2730	2735
Val Ser Gly Val Pro Leu Pro Leu Gly Pro Gln Ala Ala Gly Gln Ala 2740	2745	2750
Ser Pro Ala Leu Pro Ile Asp Pro Val Pro Pro Pro Val Ala Thr Gly 2755	2760	2765
Thr Val Leu Pro Gly Gly Glu Asn Arg Arg Pro Pro Leu Thr Ser Gly 2770	2775	2780
Pro Ala Pro Thr Pro Pro Arg Val Pro Val Gly Gly Pro Gln Arg Arg 2785	2790	2795 2800
Leu Thr Arg Pro Ala Val Ala Ser Leu Ser Glu Ser Arg Glu Ser Leu 2805	2810	2815
Pro Ser Pro Trp Asp Pro Ala Asp Pro Thr Ala Pro Val Leu Gly Arg 2820	2825	2830
Asn Pro Ala Glu Pro Thr Ser Ser Ser Pro Ala Gly Pro Ser Pro Pro 2835	2840	2845
Pro Pro Ala Val Gln Pro Val Ala Pro Pro Pro Thr Ser Gly Pro Pro 2850	2855	2860
Pro Thr Tyr Leu Thr Leu Glu Gly Gly Val Ala Pro Gly Gly Pro Val 2865	2870	2875 2880
Ser Arg Arg Pro Thr Thr Arg Gln Pro Val Ala Thr Pro Thr Thr Ser 2885	2890	2895
Ala Arg Pro Arg Gly His Leu Thr Val Ser Arg Leu Ser Ala Pro Gln 2900	2905	2910
Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln 2915	2920	2925
Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln 2930	2935	2940
Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln 2945	2950	2955 2960
Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln 2965	2970	2975
Pro Gln Pro Gln Asn Gly His Val Ala Pro Gly Glu Tyr Pro Ala Val		

2980	2985	2990
Arg Phe Arg Ala Pro Gln Asn Arg Pro Ser Val Pro Ala Ser Ala Ser		
2995	3000	3005
Ser Thr Asn Pro Arg Thr Gly Ser Ser Leu Ser Gly Val Ser Ser Trp		
3010	3015	3020
Ala Ser Ser Leu Ala Leu His Ile Asp Ala Thr Pro Pro Pro Val Ser		
3025	3030	3035 3040
Leu Leu Gln Thr Leu Tyr Val Ser Asp Asp Glu Asp Ser Asp Ala Thr		
3045	3050	3055
Ser Leu Phe Leu Ser Asp Ser Glu Ala Glu Ala Leu Asp Pro Leu Pro		
3060	3065	3070
Gly Glu Pro His Ser Pro Ile Thr Asn Glu Pro Phe Ser Ala Leu Ser		
3075	3080	3085
Ala Asp Asp Ser Gln Glu Val Thr Arg Leu Gln Phe Gly Pro Pro Pro		
3090	3095	3100
Val Ser Ala Asn Ala Val Leu Ser Arg Arg Tyr Val Gln Arg Thr Gly		
3105	3110	3115 3120
Arg Ser Ala Leu Ala Val Leu Ile Arg Ala Cys Tyr Arg Leu Gln Gln		
3125	3130	3135
Gln Leu Gln Arg Thr Arg Arg Ala Leu Leu His His Ser Asp Ala Val		
3140	3145	3150
Leu Thr Ser Leu His His Val Arg Met Leu Leu Gly		
3155	3160	

<210> 73
 <211> 1128
 <212> DNA
 <213> Herpes Virus

<400> 73
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 cagcggctgc tggctctgct gcagcagacg tggacgttga tccagaatac caattcgccc 120
 tccgtggtga tcaacaccct gatcgacgct gggttcacgc cctcgactg cagcactac 180
 ctttcggccc tggaggggtt tctggcggcg ggcgtccccg cgcggacgcc caccggccac 240
 ggactcggcg aagtccagca gctctttggg tgcattgccc tcgcgggggtc gaacgtgttt 300
 ggggttggcg ggggaatacgg gtactatgcc aactacgtaa aaactttcag gcgggtccag 360
 ggcgccagcg agcacacgca cgggcggctc tgcgaggcgg tcggcctgtc ggggggcgtt 420
 ctaagccaga cgctggcgcg tatcatgggt ccggccgtgc cgacggaaca tctggcgagc 480
 ctgcgggcgg cgctcgtggg ggagtttgag acggccgagc gccgctttag ttccggtcaa 540
 cccagccttc tccgcgagac ggcgctcatc tggatcgacg tgtatggtca gaccactgg 600
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 agccacgccc cctctgtcca cctggccgcg gcgaccaga tccgcttccc cgccctcgag 720
 ggcattcacc ccaacgtcct cgccgacccg ggcttcgtcc cctacgttct ggccctggtg 780
 gtcggggacg cgctgagggc cacgtgtagc gcggcctacc ttccccgccc ggtcgagttc 840
 gccctgcgtg tggtggcctg ggcccgggac tttgggctgg gctatctccc caggttgag 900

ggccatcgca ccaaactggg cgcgctgac accctcctcg aaccggccgc ccggggcggc 960
 ctcgccccca ctatgcagat ggccgacaac atagagcagc tgctccggga gctgtacgtg 1020
 atctccaggg gtgccgtcga gcagctgcgg cccctggtcc agctgcagcc cccccgccc 1080
 cccgaggtgg gcaccagcct cctgttgatt agcatgtacg ccctggcc 1128

<210> 74
 <211> 376
 <212> PRT
 <213> Herpes Virus

<400> 74
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 Ala Gly Ala Gln Gln Arg Leu Leu Ala Leu Leu Gln Gln Thr Trp Thr
 20 25 30
 Leu Ile Gln Asn Thr Asn Ser Pro Ser Val Val Ile Asn Thr Leu Ile
 35 40 45
 Asp Ala Gly Phe Thr Pro Ser His Cys Thr His Tyr Leu Ser Ala Leu
 50 55 60
 Glu Gly Phe Leu Ala Ala Gly Val Pro Ala Arg Thr Pro Thr Gly His
 65 70 75 80
 Gly Leu Gly Glu Val Gln Gln Leu Phe Gly Cys Ile Ala Leu Ala Gly
 85 90 95
 Ser Asn Val Phe Gly Leu Ala Arg Glu Tyr Gly Tyr Tyr Ala Asn Tyr
 100 105 110
 Val Lys Thr Phe Arg Arg Val Gln Gly Ala Ser Glu His Thr His Gly
 115 120 125
 Arg Leu Cys Glu Ala Val Gly Leu Ser Gly Gly Val Leu Ser Gln Thr
 130 135 140
 Leu Ala Arg Ile Met Gly Pro Ala Val Pro Thr Glu His Leu Ala Ser
 145 150 155 160
 Leu Arg Arg Ala Leu Val Gly Glu Phe Glu Thr Ala Glu Arg Arg Phe
 165 170 175
 Ser Ser Gly Gln Pro Ser Leu Leu Arg Glu Thr Ala Leu Ile Trp Ile
 180 185 190
 Asp Val Tyr Gly Gln Thr His Trp Asp Ile Thr Pro Thr Thr Pro Ala
 195 200 205
 Thr Pro Leu Ser Ala Leu Leu Pro Val Gly Gln Pro Ser His Ala Pro
 210 215 220
 Ser Val His Leu Ala Ala Ala Thr Gln Ile Arg Phe Pro Ala Leu Glu
 225 230 235 240

Gly Ile His Pro Asn Val Leu Ala Asp Pro Gly Phe Val Pro Tyr Val
 245 250 255
 Leu Ala Leu Val Val Gly Asp Ala Leu Arg Ala Thr Cys Ser Ala Ala
 260 265 270
 Tyr Leu Pro Arg Pro Val Glu Phe Ala Leu Arg Val Leu Ala Trp Ala
 275 280 285
 Arg Asp Phe Gly Leu Gly Tyr Leu Pro Thr Val Glu Gly His Arg Thr
 290 295 300
 Lys Leu Gly Ala Leu Ile Thr Leu Leu Glu Pro Ala Ala Arg Gly Gly
 305 310 315 320
 Leu Gly Pro Thr Met Gln Met Ala Asp Asn Ile Glu Gln Leu Leu Arg
 325 330 335
 Glu Leu Tyr Val Ile Ser Arg Gly Ala Val Glu Gln Leu Arg Pro Leu
 340 345 350
 Val Gln Leu Gln Pro Pro Pro Pro Glu Val Gly Thr Ser Leu Leu
 355 360 365
 Leu Ile Ser Met Tyr Ala Leu Ala
 370 375

<210> 75
 <211> 1083
 <212> DNA
 <213> Herpes Virus

<400> 75
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 acgcccagacc gcctggggcc ctggccccc gaggccatgg gggacgcggt gaggcagtac 180
 tgcagcatgt atcacgacgc caagcgcgcg ctggctcgct ccctcgcgag cctgcgttcc 240
 gtcacaccgc aaaccacggc gcacctgggg gtgtgcgacg agctggcggc ccaggtgtcg 300
 cacgaggaca acgtgctggc cgtgggtcgg cgcgaaattc acgggtttct gtccgtcgtg 360
 tccggcattc acgcccgggc gtcgaagctg ctgtcgggag accaggtccc cgggttttgc 420
 ttcatgggtc agtttctagc gcgctggcgg cgtctgtcgg cctgctatca agccgcgcgc 480
 gcggccgcgg gaccgagacc cgtggccgag tttgtccagg aactccacga cacgtggaag 540
 ggccctgcaga cggagcgcgc cgtgggtcgt gcgcccttgg tcagctcggc cgaccagcgc 600
 gccgcggcca tccgagaggt aatggcgcat gcgcccagg acgccccccc gcaaagcccc 660
 gcggccgacc gcgtcgtgct tacgagccgt cgcgacctag gggcctgggg ggactacagc 720
 ctcggccccc tgggccagac gaccgcgggt ccggactccg tggatctgtc tcgccagggg 780
 ctggccgtta cgctgagtat ggattgggta ctgatgaacg agctcctgcg ggtcaccgac 840
 ggcgtgtttc gcgttccgc gtttcgtccg ttagccggac cggagtctcc cagggacctg 900
 gaggtccgcg acgcccgaag cagtctcccc gcgcctatgc ccatggacgc acagaagccg 960
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 cccgtcgagg acgacgagat gatcccggag gacaccgtcg cgccaccac ggacttgccg 1080
 tta 1083

<210> 76
 <211> 361

<212> PRT
<213> Herpes Virus

<400> 76

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Arg	Thr	Leu	Ser	Ala	Phe	Phe	Glu	Cys	Arg	Phe	Glu	Ser	Asp	Gly	Arg
			20					25					30		
Arg	Leu	Tyr	Ala	Val	Val	Gly	Asp	Thr	Pro	Asp	Arg	Leu	Gly	Pro	Trp
		35					40					45			
Pro	Pro	Glu	Ala	Met	Gly	Asp	Ala	Val	Ser	Gln	Tyr	Cys	Ser	Met	Tyr
	50					55					60				
His	Asp	Ala	Lys	Arg	Ala	Leu	Val	Ala	Ser	Leu	Ala	Ser	Leu	Arg	Ser
65					70					75					80
Val	Ile	Thr	Glu	Thr	Thr	Ala	His	Leu	Gly	Val	Cys	Asp	Glu	Leu	Ala
				85					90					95	
Ala	Gln	Val	Ser	His	Glu	Asp	Asn	Val	Leu	Ala	Val	Val	Arg	Arg	Glu
			100					105					110		
Ile	His	Gly	Phe	Leu	Ser	Val	Val	Ser	Gly	Ile	His	Ala	Arg	Ala	Ser
		115					120					125			
Lys	Leu	Leu	Ser	Gly	Asp	Gln	Val	Pro	Gly	Phe	Cys	Phe	Met	Gly	Gln
	130					135					140				
Phe	Leu	Ala	Arg	Trp	Arg	Arg	Leu	Ser	Ala	Cys	Tyr	Gln	Ala	Ala	Arg
145					150					155					160
Ala	Ala	Ala	Gly	Pro	Glu	Pro	Val	Ala	Glu	Phe	Val	Gln	Glu	Leu	His
				165					170					175	
Asp	Thr	Trp	Lys	Gly	Leu	Gln	Thr	Glu	Arg	Ala	Val	Val	Val	Ala	Pro
			180					185						190	
Leu	Val	Ser	Ser	Ala	Asp	Gln	Arg	Ala	Ala	Ala	Ile	Arg	Glu	Val	Met
		195					200					205			
Ala	His	Ala	Pro	Glu	Asp	Ala	Pro	Pro	Gln	Ser	Pro	Ala	Ala	Asp	Arg
	210					215					220				
Val	Val	Leu	Thr	Ser	Arg	Arg	Asp	Leu	Gly	Ala	Trp	Gly	Asp	Tyr	Ser
225					230					235					240
Leu	Gly	Pro	Leu	Gly	Gln	Thr	Thr	Ala	Val	Pro	Asp	Ser	Val	Asp	Leu
				245					250					255	
Ser	Arg	Gln	Gly	Leu	Ala	Val	Thr	Leu	Ser	Met	Asp	Trp	Leu	Leu	Met
			260					265					270		
Asn	Glu	Leu	Leu	Arg	Val	Thr	Asp	Gly	Val	Phe	Arg	Ala	Ser	Ala	Phe
		275					280					285			

Arg Pro Leu Ala Gly Pro Glu Ser Pro Arg Asp Leu Glu Val Arg Asp
290 295 300

Ala Gly Asn Ser Leu Pro Ala Pro Met Pro Met Asp Ala Gln Lys Pro
305 310 315 320

Glu Ala Tyr Gly His Gly Pro Arg Gln Ala Asp Arg Glu Gly Ala Pro
325 330 335

His Ser Asn Thr Pro Val Glu Asp Asp Glu Met Ile Pro Glu Asp Thr
340 345 350

Val Ala Pro Pro Thr Asp Leu Pro Leu
355 360

<210> 77
<211> 3372
<212> DNA
<213> Herpes Virus

<400> 77
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acccccacgg ccgagacggc aaacggggcg gacgaccggc cgtttctggc cacggccaag 180
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ctcgaaccgg cgcgccgggg cggcctcggc cccactatgc agatggccga caacatagag 2100
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gccatccgag aggtaatggc gcatgcgccc gaggacgccc ccccgcaaag cccgcggccc 2940
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cgcgacgccg gaaacagtct ccccgcgct atgcccattg acgcacagaa gccggaggcc 3240
tatgggcacg gccacgcca ggcggaccgc gagggggcgc ctcattccaa ccccccgctc 3300
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agttaccaat aa 3372

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<210> 78
 <211> 1123
 <212> PRT
 <213> Herpes Virus

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<400> 78
Met Ala Asp Arg Gly Leu Pro Ser Glu Ala Pro Val Val Thr Thr Ser
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Pro Ala Gly Pro Pro Ser Asp Gly Pro Met Gln Arg Leu Leu Ala Ser
      20             25             30

Leu Ala Gly Leu Arg Gln Pro Pro Thr Pro Thr Ala Glu Thr Ala Asn
  35             40             45

Gly Ala Asp Asp Pro Ala Phe Leu Ala Thr Ala Lys Leu Arg Ala Ala
  50             55             60

Met Ala Ala Phe Leu Leu Ser Gly Thr Ala Ile Ala Pro Ala Asp Ala
  65             70             75             80

Arg Asp Cys Trp Arg Pro Leu Leu Glu His Leu Cys Ala Leu His Arg
      85             90             95

Ala His Gly Leu Pro Glu Thr Ala Leu Leu Ala Glu Asn Leu Pro Gly
  100            105            110

Leu Leu Val His Arg Leu Val Val Ala Leu Pro Glu Ala Pro Asp Gln
  115            120            125

Ala Phe Arg Glu Met Glu Val Ile Lys Asp Thr Ile Leu Ala Val Thr
  130            135            140

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Gly	Ser	Asp	Thr	Ser	His	Ala	Leu	Asp	Ser	Ala	Gly	Leu	Arg	Thr	Ala	145	150	155	160
Ala	Ala	Leu	Gly	Pro	Val	Arg	Val	Arg	Gln	Cys	Ala	Val	Glu	Trp	Ile	165	170	175	
Asp	Arg	Trp	Gln	Thr	Val	Thr	Lys	Ser	Cys	Leu	Ala	Met	Ser	Pro	Arg	180	185	190	
Thr	Ser	Ile	Glu	Ala	Leu	Gly	Glu	Thr	Ser	Leu	Lys	Met	Ala	Pro	Val	195	200	205	
Pro	Leu	Gly	Gln	Pro	Ser	Ala	Asn	Leu	Thr	Thr	Pro	Ala	Tyr	Ser	Leu	210	215	220	
Leu	Phe	Pro	Ala	Pro	Phe	Val	Gln	Glu	Gly	Leu	Arg	Phe	Leu	Ala	Leu	225	230	235	240
Val	Ser	Asn	Arg	Val	Thr	Leu	Phe	Ser	Ala	His	Leu	Gln	Arg	Ile	Asp	245	250	255	
Asp	Ala	Thr	Leu	Thr	Pro	Leu	Thr	Arg	Ala	Leu	Phe	Thr	Leu	Ala	Leu	260	265	270	
Val	Asp	Glu	Tyr	Leu	Thr	Thr	Pro	Glu	Arg	Gly	Ala	Val	Val	Pro	Pro	275	280	285	
Pro	Leu	Leu	Ala	Gln	Phe	Gln	His	Thr	Val	Arg	Glu	Ile	Asp	Pro	Ala	290	295	300	
Ile	Met	Ile	Pro	Pro	Leu	Glu	Ala	Asn	Lys	Met	Val	Arg	Ser	Arg	Glu	305	310	315	320
Glu	Val	Arg	Val	Ser	Thr	Ala	Leu	Ser	Arg	Val	Ser	Pro	Arg	Ser	Ala	325	330	335	
Cys	Ala	Pro	Pro	Gly	Thr	Leu	Met	Ala	Arg	Val	Arg	Thr	Asp	Val	Ala	340	345	350	
Val	Phe	Asp	Pro	Asp	Val	Pro	Phe	Leu	Ser	Ser	Ser	Ala	Leu	Ala	Val	355	360	365	
Phe	Gln	Pro	Ala	Val	Ser	Ser	Leu	Leu	Gln	Leu	Gly	Glu	Gln	Pro	Ser	370	375	380	
Ala	Gly	Ala	Gln	Gln	Arg	Leu	Leu	Ala	Leu	Leu	Gln	Gln	Thr	Trp	Thr	385	390	395	400
Leu	Ile	Gln	Asn	Thr	Asn	Ser	Pro	Ser	Val	Val	Ile	Asn	Thr	Leu	Ile	405	410	415	
Asp	Ala	Gly	Phe	Thr	Pro	Ser	His	Cys	Thr	His	Tyr	Leu	Ser	Ala	Leu	420	425	430	
Glu	Gly	Phe	Leu	Ala	Ala	Gly	Val	Pro	Ala	Arg	Thr	Pro	Thr	Gly	His	435	440	445	

Gly	Leu	Gly	Glu	Val	Gln	Gln	Leu	Phe	Gly	Cys	Ile	Ala	Leu	Ala	Gly	450	455	460	
Ser	Asn	Val	Phe	Gly	Leu	Ala	Arg	Glu	Tyr	Gly	Tyr	Tyr	Ala	Asn	Tyr	465	470	475	480
Val	Lys	Thr	Phe	Arg	Arg	Val	Gln	Gly	Ala	Ser	Glu	His	Thr	His	Gly	485	490	495	
Arg	Leu	Cys	Glu	Ala	Val	Gly	Leu	Ser	Gly	Gly	Val	Leu	Ser	Gln	Thr	500	505	510	
Leu	Ala	Arg	Ile	Met	Gly	Pro	Ala	Val	Pro	Thr	Glu	His	Leu	Ala	Ser	515	520	525	
Leu	Arg	Arg	Ala	Leu	Val	Gly	Glu	Phe	Glu	Thr	Ala	Glu	Arg	Arg	Phe	530	535	540	
Ser	Ser	Gly	Gln	Pro	Ser	Leu	Leu	Arg	Glu	Thr	Ala	Leu	Ile	Trp	Ile	545	550	555	560
Asp	Val	Tyr	Gly	Gln	Thr	His	Trp	Asp	Ile	Thr	Pro	Thr	Thr	Pro	Ala	565	570	575	
Thr	Pro	Leu	Ser	Ala	Leu	Leu	Pro	Val	Gly	Gln	Pro	Ser	His	Ala	Pro	580	585	590	
Ser	Val	His	Leu	Ala	Ala	Ala	Thr	Gln	Ile	Arg	Phe	Pro	Ala	Leu	Glu	595	600	605	
Gly	Ile	His	Pro	Asn	Val	Leu	Ala	Asp	Pro	Gly	Phe	Val	Pro	Tyr	Val	610	615	620	
Leu	Ala	Leu	Val	Val	Gly	Asp	Ala	Leu	Arg	Ala	Thr	Cys	Ser	Ala	Ala	625	630	635	640
Tyr	Leu	Pro	Arg	Pro	Val	Glu	Phe	Ala	Leu	Arg	Val	Leu	Ala	Trp	Ala	645	650	655	
Arg	Asp	Phe	Gly	Leu	Gly	Tyr	Leu	Pro	Thr	Val	Glu	Gly	His	Arg	Thr	660	665	670	
Lys	Leu	Gly	Ala	Leu	Ile	Thr	Leu	Leu	Glu	Pro	Ala	Ala	Arg	Gly	Gly	675	680	685	
Leu	Gly	Pro	Thr	Met	Gln	Met	Ala	Asp	Asn	Ile	Glu	Gln	Leu	Leu	Arg	690	695	700	
Glu	Leu	Tyr	Val	Ile	Ser	Arg	Gly	Ala	Val	Glu	Gln	Leu	Arg	Pro	Leu	705	710	715	720
Val	Gln	Leu	Gln	Pro	Pro	Pro	Pro	Pro	Glu	Val	Gly	Thr	Ser	Leu	Leu	725	730	735	
Leu	Ile	Ser	Met	Tyr	Ala	Leu	Ala	Ala	Arg	Gly	Val	Leu	Gln	Asp	Leu	740	745	750	

Ala	Glu	Arg	Ala	Asp	Pro	Leu	Ile	Arg	Gln	Leu	Glu	Asp	Ala	Ile	Val	755	760	765	
Leu	Leu	Arg	Leu	His	Met	Arg	Thr	Leu	Ser	Ala	Phe	Phe	Glu	Cys	Arg	770	775	780	
Phe	Glu	Ser	Asp	Gly	Arg	Arg	Leu	Tyr	Ala	Val	Val	Gly	Asp	Thr	Pro	785	790	795	800
Asp	Arg	Leu	Gly	Pro	Trp	Pro	Pro	Glu	Ala	Met	Gly	Asp	Ala	Val	Ser	805	810	815	
Gln	Tyr	Cys	Ser	Met	Tyr	His	Asp	Ala	Lys	Arg	Ala	Leu	Val	Ala	Ser	820	825	830	
Leu	Ala	Ser	Leu	Arg	Ser	Val	Ile	Thr	Glu	Thr	Thr	Ala	His	Leu	Gly	835	840	845	
Val	Cys	Asp	Glu	Leu	Ala	Ala	Gln	Val	Ser	His	Glu	Asp	Asn	Val	Leu	850	855	860	
Ala	Val	Val	Arg	Arg	Glu	Ile	His	Gly	Phe	Leu	Ser	Val	Val	Ser	Gly	865	870	875	880
Ile	His	Ala	Arg	Ala	Ser	Lys	Leu	Leu	Ser	Gly	Asp	Gln	Val	Pro	Gly	885	890	895	
Phe	Cys	Phe	Met	Gly	Gln	Phe	Leu	Ala	Arg	Trp	Arg	Arg	Leu	Ser	Ala	900	905	910	
Cys	Tyr	Gln	Ala	Ala	Arg	Ala	Ala	Ala	Gly	Pro	Glu	Pro	Val	Ala	Glu	915	920	925	
Phe	Val	Gln	Glu	Leu	His	Asp	Thr	Trp	Lys	Gly	Leu	Gln	Thr	Glu	Arg	930	935	940	
Ala	Val	Val	Val	Ala	Pro	Leu	Val	Ser	Ser	Ala	Asp	Gln	Arg	Ala	Ala	945	950	955	960
Ala	Ile	Arg	Glu	Val	Met	Ala	His	Ala	Pro	Glu	Asp	Ala	Pro	Pro	Gln	965	970	975	
Ser	Pro	Ala	Ala	Asp	Arg	Val	Val	Leu	Thr	Ser	Arg	Arg	Asp	Leu	Gly	980	985	990	
Ala	Trp	Gly	Asp	Tyr	Ser	Leu	Gly	Pro	Leu	Gly	Gln	Thr	Thr	Ala	Val	995	1000	1005	
Pro	Asp	Ser	Val	Asp	Leu	Ser	Arg	Gln	Gly	Leu	Ala	Val	Thr	Leu	Ser	1010	1015	1020	
Met	Asp	Trp	Leu	Leu	Met	Asn	Glu	Leu	Leu	Arg	Val	Thr	Asp	Gly	Val	1025	1030	1035	1040
Phe	Arg	Ala	Ser	Ala	Phe	Arg	Pro	Leu	Ala	Gly	Pro	Glu	Ser	Pro	Arg	1045	1050	1055	

Asp Leu Glu Val Arg Asp Ala Gly Asn Ser Leu Pro Ala Pro Met Pro
1060 1065 1070

Met Asp Ala Gln Lys Pro Glu Ala Tyr Gly His Gly Pro Arg Gln Ala
1075 1080 1085

Asp Arg Glu Gly Ala Pro His Ser Asn Thr Pro Val Glu Asp Asp Glu
1090 1095 1100

Met Ile Pro Glu Asp Thr Val Ala Pro Pro Thr Asp Leu Pro Leu Thr
1105 1110 1115 1120

Ser Tyr Gln

<210> 79
<211> 1401
<212> DNA
<213> Herpes Virus

<400> 79
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gaaaccaggg cccctctgcc gccggccggc ggccggcacc agacgcgcgt ctgctggacc 960
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gccaaccgac gacgccacgt catccacgac gcccagaggt ccctggactg gctccccgat 1200
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<210> 80
<211> 467
<212> PRT
<213> Herpes Virus

<400> 80
Leu Phe Gly Met Met Lys Phe Ala His Thr His His Leu Val Lys Arg
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Arg	Gly	Leu	Gly	Ala	Pro	Ala	Gly	Tyr	Phe	Thr	Pro	Ile	Ala	Val	Asp	20	25	30
Leu	Trp	Asn	Val	Met	Tyr	Thr	Leu	Val	Val	Lys	Tyr	Gln	Arg	Arg	Tyr	35	40	45
Pro	Ser	Tyr	Asp	Arg	Glu	Ala	Ile	Thr	Leu	His	Cys	Leu	Cys	Arg	Leu	50	55	60
Leu	Lys	Val	Phe	Thr	Gln	Lys	Ser	Leu	Phe	Pro	Ile	Phe	Val	Thr	Asp	65	70	75
Arg	Gly	Val	Asn	Cys	Met	Glu	Pro	Val	Val	Phe	Gly	Ala	Lys	Ala	Ile	85	90	95
Leu	Ala	Arg	Thr	Thr	Ala	Gln	Cys	Arg	Thr	Asp	Glu	Glu	Ala	Ser	Asp	100	105	110
Val	Asp	Ala	Ser	Pro	Pro	Pro	Ser	Pro	Ile	Thr	Asp	Ser	Arg	Pro	Ser	115	120	125
Ser	Ala	Phe	Ser	Asn	Met	Arg	Arg	Arg	Gly	Thr	Ser	Leu	Ala	Ser	Gly	130	135	140
Thr	Arg	Gly	Thr	Ala	Gly	Ser	Gly	Ala	Ala	Leu	Pro	Ser	Ala	Ala	Pro	145	150	155
Ser	Lys	Pro	Ala	Leu	Arg	Leu	Ala	His	Leu	Phe	Cys	Ile	Arg	Val	Leu	165	170	175
Arg	Ala	Leu	Gly	Tyr	Ala	Tyr	Ile	Asn	Ser	Gly	Gln	Leu	Glu	Ala	Asp	180	185	190
Asp	Ala	Cys	Ala	Asn	Leu	Tyr	His	Thr	Asn	Thr	Val	Ala	Tyr	Val	Tyr	195	200	205
Thr	Thr	Asp	Thr	Asp	Leu	Leu	Leu	Met	Gly	Cys	Asp	Ile	Val	Leu	Asp	210	215	220
Ile	Ser	Ala	Cys	Tyr	Ile	Pro	Thr	Ile	Asn	Cys	Arg	Asp	Ile	Leu	Lys	225	230	235
Tyr	Phe	Lys	Met	Ser	Tyr	Pro	Gln	Phe	Leu	Ala	Leu	Phe	Val	Arg	Cys	245	250	255
His	Thr	Asp	Leu	His	Pro	Asn	Asn	Thr	Tyr	Ala	Ser	Val	Glu	Asp	Val	260	265	270
Leu	Arg	Glu	Cys	His	Trp	Thr	Pro	Pro	Ser	Arg	Ser	Gln	Thr	Arg	Arg	275	280	285
Ala	Ile	Arg	Arg	Glu	His	Thr	Ser	Ser	Arg	Ser	Thr	Glu	Thr	Arg	Pro	290	295	300
Pro	Leu	Pro	Pro	Ala	Ala	Gly	Gly	Thr	Glu	Thr	Arg	Val	Ser	Trp	Thr	305	310	315

Glu Ile Leu Thr Gln Gln Ile Ala Gly Gly Tyr Glu Asp Asp Glu Asp
325 330 335

Leu Pro Leu Asp Pro Arg Asp Val Thr Gly Gly His Pro Gly Pro Arg
340 345 350

Ser Ser Ser Ser Glu Ile Leu Thr Pro Pro Glu Leu Val Gln Val Pro
355 360 365

Asn Ala Gln Leu Leu Glu Glu His Arg Ser Tyr Val Ala Asn Pro Arg
370 375 380

Arg His Val Ile His Asp Ala Pro Glu Ser Leu Asp Trp Leu Pro Asp
385 390 395 400

Pro Met Thr Ile Thr Glu Leu Val Glu His Arg Tyr Ile Lys Tyr Val
405 410 415

Ile Ser Leu Ile Gly Pro Lys Glu Arg Gly Pro Trp Thr Leu Leu Lys
420 425 430

Arg Leu Pro Ile Tyr Gln Asp Ile Arg Asp Glu Asn Leu Ala Arg Ser
435 440 445

Ile Val Thr Arg His Ile Thr Ala Pro Asp Ile Ala Asp Arg Phe Leu
450 455 460

Glu Gln Leu
465

<210> 81
<211> 1470
<212> DNA
<213> Herpes Virus

<400> 81
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acgttggttg tcaaatatca gcgccgatac cccagttacg accgcgaggc cattacgcta 180
cactgcctct gtcgcttatt aaaggtgttt acccaaaagt cctttttccc catcttcgtt 240
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cgcacgacgg cccagtgccg gacggacgag gaggccagtg acgtggacgc ctctccaccg 360
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 cttatcggcc ccaaggagcg ggggccgtgg actcttctga aacgcctgcc tatctaccag 1320
 gacatccgcg acgaaaacct ggcgcgatct atcgtgaccc ggcatatcac ggccccctgat 1380
 atcgccgaca ggtttctgga gcagttgcgg acccaggccc cccaccgcgc gttctacaag 1440
 gacgtccttg ccaaattctg ggacgagtag 1470

<210> 82
 <211> 489
 <212> PRT
 <213> Herpes Virus

<400> 82
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 20 25 30
 Val Asp Leu Trp Asn Val Met Tyr Thr Leu Val Val Lys Tyr Gln Arg
 35 40 45
 Arg Tyr Pro Ser Tyr Asp Arg Glu Ala Ile Thr Leu His Cys Leu Cys
 50 55 60
 Arg Leu Leu Lys Val Phe Thr Gln Lys Ser Leu Phe Pro Ile Phe Val
 65 70 75 80
 Thr Asp Arg Gly Val Asn Cys Met Glu Pro Val Val Phe Gly Ala Lys
 85 90 95
 Ala Ile Leu Ala Arg Thr Thr Ala Gln Cys Arg Thr Asp Glu Glu Ala
 100 105 110
 Ser Asp Val Asp Ala Ser Pro Pro Pro Ser Pro Ile Thr Asp Ser Arg
 115 120 125
 Pro Ser Ser Ala Phe Ser Asn Met Arg Arg Arg Gly Thr Ser Leu Ala
 130 135 140
 Ser Gly Thr Arg Gly Thr Ala Gly Ser Gly Ala Ala Leu Pro Ser Ala
 145 150 155 160
 Ala Pro Ser Lys Pro Ala Leu Arg Leu Ala His Leu Phe Cys Ile Arg
 165 170 175
 Val Leu Arg Ala Leu Gly Tyr Ala Tyr Ile Asn Ser Gly Gln Leu Glu
 180 185 190
 Ala Asp Asp Ala Cys Ala Asn Leu Tyr His Thr Asn Thr Val Ala Tyr
 195 200 205
 Val Tyr Thr Thr Asp Thr Asp Leu Leu Leu Met Gly Cys Asp Ile Val
 210 215 220
 Leu Asp Ile Ser Ala Cys Tyr Ile Pro Thr Ile Asn Cys Arg Asp Ile

225		230		235		240
Leu Lys Tyr Phe	Lys Met Ser Tyr	Pro Gln Phe Leu	Ala Leu Phe Val			
	245		250		255	
Arg Cys His Thr	Asp Leu His Pro	Asn Asn Thr Tyr	Ala Ser Val Glu			
	260	265	270			
Asp Val Leu Arg	Glu Cys His Trp	Thr Pro Pro Ser	Arg Ser Gln Thr			
	275	280	285			
Arg Arg Ala Ile	Arg Arg Glu His	Thr Ser Ser Arg	Ser Thr Glu Thr			
	290	295	300			
Arg Pro Pro Leu	Pro Pro Ala Ala	Gly Gly Thr Glu	Thr Arg Val Ser			
305	310	315	320			
Trp Thr Glu Ile	Leu Thr Gln Gln	Ile Ala Gly Gly	Tyr Glu Asp Asp			
	325	330	335			
Glu Asp Leu Pro	Leu Asp Pro Arg	Asp Val Thr Gly	Gly His Pro Gly			
	340	345	350			
Pro Arg Ser Ser	Ser Ser Glu Ile	Leu Thr Pro Pro	Glu Leu Val Gln			
	355	360	365			
Val Pro Asn Ala	Gln Leu Leu Glu	Glu His Arg Ser	Tyr Val Ala Asn			
	370	375	380			
Pro Arg Arg His	Val Ile His Asp	Ala Pro Glu Ser	Leu Asp Trp Leu			
385	390	395	400			
Pro Asp Pro Met	Thr Ile Thr Glu	Leu Val Glu His	Arg Tyr Ile Lys			
	405	410	415			
Tyr Val Ile Ser	Leu Ile Gly Pro	Lys Glu Arg Gly	Pro Trp Thr Leu			
	420	425	430			
Leu Lys Arg Leu	Pro Ile Tyr Gln	Asp Ile Arg Asp	Glu Asn Leu Ala			
	435	440	445			
Arg Ser Ile Val	Thr Arg His Ile	Thr Ala Pro Asp	Ile Ala Asp Arg			
	450	455	460			
Phe Leu Glu Gln	Leu Arg Thr Gln	Ala Pro Pro Pro	Ala Phe Tyr Lys			
465	470	475	480			
Asp Val Leu Ala	Lys Phe Trp Asp	Glu				
	485					

<210> 83
 <211> 1257
 <212> DNA
 <213> Herpes Virus

 <400> 83

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gccccgggaa cgccgggccc gggcctgccg ctgtggcccc aggtgtttct cggaggccat 960
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ctgctgtttg ttcacgcggg actgcaggtc atcaacctcg gggtgggtgt tcggttttcc 1080
gaggttgctg tgtatgcggc gctagggggg gccgtgtgga ttctgttggc gcaggtgctg 1140
gggctccggc gtcgcctgca caggaaggac cccggggacg gggcccggtt ggcggcgacg 1200
cttcggggcc tcttcttctc cgtgtacgcg ctgggggttt gggtgggggt gctgctg 1257

```

<210> 84
 <211> 419
 <212> PRT
 <213> Herpes Virus

```

<400> 84
Val Thr Glu Pro Pro Arg Val Pro Ser Arg Pro Arg Arg Gly Met Leu
  1             5             10             15

Arg Asn Asp Ser His Arg Ala Val Ser Pro Glu Asp Gly Gln Gly Arg
      20             25             30

Val Asp Asp Gly Arg Pro His Leu Ala Cys Val Gly Ala Leu Ala Arg
      35             40             45

Gly Phe Met His Ile Trp Leu Gln Ala Ala Thr Leu Gly Phe Ala Gly
      50             55             60

Ser Val Val Met Ser Arg Gly Pro Tyr Ala Asn Ala Ala Ser Gly Ala
      65             70             75             80

Phe Ala Val Gly Cys Ala Val Leu Gly Phe Met Arg Ala Pro Pro Pro
      85             90             95

Leu Ala Arg Pro Thr Ala Arg Ile Tyr Ala Trp Leu Lys Leu Ala Ala
      100            105            110

Gly Gly Ala Ala Leu Val Leu Trp Ser Leu Gly Glu Pro Gly Thr Gln
      115            120            125

Pro Gly Ala Pro Ala Pro Gly Pro Ala Thr Gln Cys Leu Ala Leu Gly
      130            135            140

Ala Ala Tyr Ala Ala Leu Leu Val Leu Ala Asp Asp Val Tyr Pro Leu

```

145		150		155		160									
Phe	Leu	Leu	Ala	Pro	Gly	Pro	Leu	Phe	Val	Gly	Thr	Leu	Gly	Met	Val
			165						170					175	
Val	Gly	Gly	Leu	Thr	Ile	Gly	Gly	Ser	Ala	Arg	Tyr	Trp	Trp	Ile	Gly
			180					185					190		
Gly	Pro	Ala	Ala	Ala	Ala	Leu	Ala	Ala	Ala	Val	Leu	Ala	Gly	Pro	Gly
		195					200					205			
Ala	Thr	Thr	Ala	Arg	Asp	Cys	Phe	Ser	Arg	Ala	Cys	Pro	Asp	His	Arg
	210					215					220				
Arg	Val	Cys	Val	Ile	Thr	Ala	Gly	Glu	Ser	Leu	Ser	Arg	Arg	Pro	Pro
225					230					235					240
Glu	Asp	Pro	Glu	Arg	Pro	Gly	Val	Pro	Gly	Pro	Pro	Ser	Pro	Pro	Thr
				245					250					255	
Pro	Gln	Arg	Ser	His	Gly	Pro	Pro	Ala	Asp	Glu	Val	Ala	Pro	Ala	Arg
			260					265					270		
Val	Ala	Arg	Pro	Glu	Asn	Val	Trp	Val	Pro	Val	Val	Thr	Phe	Leu	Gly
		275					280					285			
Ala	Gly	Ala	Leu	Ala	Val	Lys	Thr	Val	Arg	Glu	His	Ala	Arg	Gly	Thr
	290					295					300				
Pro	Gly	Pro	Gly	Leu	Pro	Leu	Trp	Pro	Gln	Val	Phe	Leu	Gly	Gly	His
305					310					315					320
Val	Ala	Val	Ala	Leu	Thr	Glu	Leu	Cys	Gln	Ala	Leu	Pro	Pro	Trp	Asp
				325					330					335	
Leu	Thr	Asp	Pro	Leu	Leu	Phe	Val	His	Ala	Gly	Leu	Gln	Val	Ile	Asn
			340					345					350		
Leu	Gly	Leu	Val	Phe	Arg	Phe	Ser	Glu	Val	Val	Val	Tyr	Ala	Ala	Leu
		355					360					365			
Gly	Gly	Ala	Val	Trp	Ile	Ser	Leu	Ala	Gln	Val	Leu	Gly	Leu	Arg	Arg
	370					375					380				
Arg	Leu	His	Arg	Lys	Asp	Pro	Gly	Asp	Gly	Ala	Arg	Leu	Ala	Ala	Thr
385					390					395					400
Leu	Arg	Gly	Leu	Phe	Phe	Ser	Val	Tyr	Ala	Leu	Gly	Phe	Gly	Val	Gly
				405					410					415	
Val	Leu	Leu													

<210> 85
 <211> 1305
 <212> DNA

<213> Herpes Virus

<400> 85

```
atgtggggcg tgacggaacc acccgcgtg ccatcacggc caaggcgcg gatgctccgc 60
aacgacagcc accgggcccgt gtccccggag gacggccagg gacgggtcga cgacggacgg 120
ccacacctcg cgtgcgtggg ggccttgccg cgggggttca tgcatactcg gcttcaggcc 180
gccacgctgg gttttgcggg atcggtcggt atgtcgcgcg ggccgtacgc gaatgcccg 240
tctggggcgt tcgccgtcgg gtgcgcctg ctgggcttta tgcgcgcacc cctccccctc 300
gcgcggccca ccgcgcggat atacgcctgg ctcaaactgg cggccggtgg agcggccctt 360
gttctgtgga gtctcgggga gcccggcacg cagccggggg ccccgggccc gggcccgggc 420
accagtgccc tggcactggg cgcgcctat gcggcgctcc tgggtgctcg cgatgacgtc 480
tatccgctct ttctcctcgc cccggggccc ctgttcgtcg gcaccctggg gatggtcgtc 540
ggcgggctga cgatcggagg cagcgcgcgc tactggtgga tcggtgggccc cgccgcggcc 600
gccctggccg cggcggtggt ggccggggccc gggcgacca ccgccaggga ctgcttttcc 660
agggcttgcc ccgaccaccg ccgcgtctgt gtcaccaccg caggcgagtc tctttccgc 720
cgcccccccg aggaccaga gcgaccggg gttcccgggc ccccgctccc cccgaccccc 780
caacgatccc acgggcccgc ggccgatgag gtcgcaccgg ccagggtcgc gcggcccgaa 840
aacgtctggg tgcccgtggt cacttttctg gggcgggcg cgcttgccgt caagacgggtg 900
cgagaacatg cccggggaac gccggggccc ggccgtccgc tgtggcccca ggtgtttctc 960
ggaggccatg tggcggtggc cctgacggag ctgtgtcagg cgcttcgcc ctgggacctt 1020
acggaccgcg tgctgtttgt tcacgccgga ctgcaggtca tcaacctcgg gttggtgttt 1080
cggttttccg aggttgctgt gtatgcggcg ctaggggggt cctgtgtgat ttcgttggcg 1140
caggtgctgg ggctccggcg tcgcctgcac aggaaggacc ccggggacgg ggcccggttg 1200
gcggcgacgc ttcggggcct cttcttctcc gtgtacgcgc tgggggtttg ggtgggggtg 1260
ctgctgtgcc ctccggggtc aacgggcggg cggtcgggcg attga 1305
```

<210> 86

<211> 434

<212> PRT

<213> Herpes Virus

<400> 86

```
Met Trp Gly Val Thr Glu Pro Pro Arg Val Pro Ser Arg Pro Arg Arg
 1          5          10          15

Gly Met Leu Arg Asn Asp Ser His Arg Ala Val Ser Pro Glu Asp Gly
 20          25          30

Gln Gly Arg Val Asp Asp Gly Arg Pro His Leu Ala Cys Val Gly Ala
 35          40          45

Leu Ala Arg Gly Phe Met His Ile Trp Leu Gln Ala Ala Thr Leu Gly
 50          55          60

Phe Ala Gly Ser Val Val Met Ser Arg Gly Pro Tyr Ala Asn Ala Ala
 65          70          75          80

Ser Gly Ala Phe Ala Val Gly Cys Ala Val Leu Gly Phe Met Arg Ala
 85          90          95

Pro Pro Pro Leu Ala Arg Pro Thr Ala Arg Ile Tyr Ala Trp Leu Lys
100          105          110

Leu Ala Ala Gly Gly Ala Ala Leu Val Leu Trp Ser Leu Gly Glu Pro
115          120          125
```

Gly	Thr	Gln	Pro	Gly	Ala	Pro	Ala	Pro	Gly	Pro	Ala	Thr	Gln	Cys	Leu	130	135	140	
Ala	Leu	Gly	Ala	Ala	Tyr	Ala	Ala	Leu	Leu	Val	Leu	Ala	Asp	Asp	Val	145	150	155	160
Tyr	Pro	Leu	Phe	Leu	Leu	Ala	Pro	Gly	Pro	Leu	Phe	Val	Gly	Thr	Leu	165	170	175	
Gly	Met	Val	Val	Gly	Gly	Leu	Thr	Ile	Gly	Gly	Ser	Ala	Arg	Tyr	Trp	180	185	190	
Trp	Ile	Gly	Gly	Pro	Ala	Ala	Ala	Ala	Leu	Ala	Ala	Ala	Val	Leu	Ala	195	200	205	
Gly	Pro	Gly	Ala	Thr	Thr	Ala	Arg	Asp	Cys	Phe	Ser	Arg	Ala	Cys	Pro	210	215	220	
Asp	His	Arg	Arg	Val	Cys	Val	Ile	Thr	Ala	Gly	Glu	Ser	Leu	Ser	Arg	225	230	235	240
Arg	Pro	Pro	Glu	Asp	Pro	Glu	Arg	Pro	Gly	Val	Pro	Gly	Pro	Pro	Ser	245	250	255	
Pro	Pro	Thr	Pro	Gln	Arg	Ser	His	Gly	Pro	Pro	Ala	Asp	Glu	Val	Ala	260	265	270	
Pro	Ala	Arg	Val	Ala	Arg	Pro	Glu	Asn	Val	Trp	Val	Pro	Val	Val	Thr	275	280	285	
Phe	Leu	Gly	Ala	Gly	Ala	Leu	Ala	Val	Lys	Thr	Val	Arg	Glu	His	Ala	290	295	300	
Arg	Gly	Thr	Pro	Gly	Pro	Gly	Leu	Pro	Leu	Trp	Pro	Gln	Val	Phe	Leu	305	310	315	320
Gly	Gly	His	Val	Ala	Val	Ala	Leu	Thr	Glu	Leu	Cys	Gln	Ala	Leu	Pro	325	330	335	
Pro	Trp	Asp	Leu	Thr	Asp	Pro	Leu	Leu	Phe	Val	His	Ala	Gly	Leu	Gln	340	345	350	
Val	Ile	Asn	Leu	Gly	Leu	Val	Phe	Arg	Phe	Ser	Glu	Val	Val	Val	Tyr	355	360	365	
Ala	Ala	Leu	Gly	Gly	Ala	Val	Trp	Ile	Ser	Leu	Ala	Gln	Val	Leu	Gly	370	375	380	
Leu	Arg	Arg	Arg	Leu	His	Arg	Lys	Asp	Pro	Gly	Asp	Gly	Ala	Arg	Leu	385	390	395	400
Ala	Ala	Thr	Leu	Arg	Gly	Leu	Phe	Phe	Ser	Val	Tyr	Ala	Leu	Gly	Phe	405	410	415	
Gly	Val	Gly	Val	Leu	Leu	Cys	Pro	Pro	Gly	Ser	Thr	Gly	Gly	Arg	Ser	420	425	430	

Gly Asp

<210> 87
<211> 711
<212> DNA
<213> Herpes Virus

<400> 87
gtggctcctgt ggagcctgtt gtggctcggg gcgggggtgt ccgggggctc ggaaactgcc 60
tccaccgggc ccacgacac cgcgggagcg gtgacgaacg cgagcgaggc cccacatcg 120
gggtcccccg ggtagccgc cagcccggag gtcaccccca catcgacccc aaacccaac 180
aatgtcacac aaaacaaaac cccccccacc gagcgggcca gcccccaac aacccaac 240
cccacctcca cgcccaaaag cccccccacg tccaccccg accccaaacc caagaacaac 300
accacccccg ccaagtcggg ccgccccact aaaccccccg ggcccggtgt gtgcgaccgc 360
cgcgacccat tggcccggtg cggtcgcgg gtgcagatcc gatgccggtt tcggaattcc 420
acccgcatgg agttccgctt ccagatatgg cgttactcca tgggtccgtc ccccccaatc 480
gtcgcggctc ccgacctaga ggaggtcctg acgaacatca ccgccccacc cgggggactc 540
ctggtgtacg acagcgcccc caacctaacg gacccccacg tgctctgggc ggagggggcc 600
ggcccgggcg ccgacctcc gttgtattct gtcaccgggc cgctgccgac ccagcggctg 660
attatcgggc aggtgacgcc cgcgaccag ggaatgtatt acttggcctg g 711

<210> 88
<211> 237
<212> PRT
<213> Herpes Virus

<400> 88
Val Val Leu Trp Ser Leu Leu Trp Leu Gly Ala Gly Val Ser Gly Gly
1 5 10 15
Ser Glu Thr Ala Ser Thr Gly Pro Thr Ile Thr Ala Gly Ala Val Thr
20 25 30
Asn Ala Ser Glu Ala Pro Thr Ser Gly Ser Pro Gly Ser Ala Ala Ser
35 40 45
Pro Glu Val Thr Pro Thr Ser Thr Pro Asn Pro Asn Asn Val Thr Gln
50 55 60
Asn Lys Thr Thr Pro Thr Glu Pro Ala Ser Pro Pro Thr Thr Pro Lys
65 70 75 80
Pro Thr Ser Thr Pro Lys Ser Pro Pro Thr Ser Thr Pro Asp Pro Lys
85 90 95
Pro Lys Asn Asn Thr Thr Pro Ala Lys Ser Gly Arg Pro Thr Lys Pro
100 105 110
Pro Gly Pro Val Trp Cys Asp Arg Arg Asp Pro Leu Ala Arg Tyr Gly
115 120 125
Ser Arg Val Gln Ile Arg Cys Arg Phe Arg Asn Ser Thr Arg Met Glu
130 135 140

Phe Arg Leu Gln Ile Trp Arg Tyr Ser Met Gly Pro Ser Pro Pro Ile
 145 150 155 160

Ala Pro Ala Pro Asp Leu Glu Glu Val Leu Thr Asn Ile Thr Ala Pro
 165 170 175

Pro Gly Gly Leu Leu Val Tyr Asp Ser Ala Pro Asn Leu Thr Asp Pro
 180 185 190

His Val Leu Trp Ala Glu Gly Ala Gly Pro Gly Ala Asp Pro Pro Leu
 195 200 205

Tyr Ser Val Thr Gly Pro Leu Pro Thr Gln Arg Leu Ile Ile Gly Glu
 210 215 220

Val Thr Pro Ala Thr Gln Gly Met Tyr Tyr Leu Ala Trp
 225 230 235

<210> 89
 <211> 1536
 <212> DNA
 <213> Herpes Virus

<400> 89
 atggccccgg ggcgggtggg ccttgccgtg gtctgtgga gcctgttgtg gctcggggcg 60
 ggggtgtccg ggggctcgga aactgcctcc accgggcccc cgatcaccgc gggagcgggtg 120
 acgaacgcga gcgaggcccc caccatcggtg tccccgggt cagccgccag cccggaggtc 180
 acccccacat cgacccccaa cccaacaat gtcacacaaa acaaaaccac cccaccgag 240
 ccggccagcc cccaacaac cccaagccc acctccacgc ccaaagccc cccacgtcc 300
 acccccgacc caaacccaa gaacaacacc acccccgcca agtcggggcg cccactaaa 360
 cccccgggc ccgtgtggtg cgaccgcgc gaccatttg cccggtagcg ctgcgggtg 420
 cagatccgat gccggtttcg gaattccacc cgcattgagt tccgcctcca gatattggtg 480
 tactccatgg gtccgtcccc ccaatcgct ccggctcccg acctagagga ggtcctgacg 540
 aacatcaccg cccaccggtg gggactcctg gtgtacgaca gcgcccccaa cctaaccggac 600
 cccacgtgc tctgggcgga gggggccggc ccgggcgcgc accctccgtt gtattctgtc 660
 accgggcccgc tgccgaccca gcggtgatt atcggcgagg tgacgcccgc gaccaggga 720
 atgtattact tggcctgggg ccggatggac agccgcacg agtacgggac gtgggtgccc 780
 gtccgcattg tccgcccccc gtctctgacc ctccagcccc acgcggtgat ggagggtcag 840
 ccgttcaagg cgacgtgcac ggccgcgcgc tactaccgc gtaaccccg gtggtttgtc 900
 tggttcgagg acgaccacca ggtgtttaac ccgggccaga tcgacacgca gacgcacgag 960
 caccgcgacg ggttcaccac agtctctacc gtgacctcc aggtgttcg cggccagggtc 1020
 ccccgcgga ccttcacctg ccagatgacg tggcatcgcg actccgtgac gttctcgga 1080
 cgcaatgcca ccgggtggtg cctggtgctg ccgcgccaa ccatcaccat ggaatttggg 1140
 gtccgcattg tggctgcac ggccggtgc gtccccgagg gcgtgacgtt tgctggttc 1200
 ctgggggacg accctcacc ggccgctaag tcggccgcta cggccagga gtcgtgcgac 1260
 cacccgggc tggctacggt ccggtccacc ctgcccattt cgtacgacta cagcgagtac 1320
 atctgtcggg tgaccggata tccggccggg attcccgttc tagaacacca cggcagtcac 1380
 cagccccac ccagggaccc caccgagcgg caggtgatcg aggcgatcga gtgggtgggg 1440
 attggaatcg gggttctcgc ggccgggggtc ctggctgtaa cggcaatcgt gtacgtcgtc 1500
 cgcacatcac agtcgcggca gcgtcatcgg cggtaa 1536

<210> 90
 <211> 511
 <212> PRT
 <213> Herpes Virus

<400> 90

Met Ala Pro Gly Arg Val Gly Leu Ala Val Val Leu Trp Ser Leu Leu
1 5 10 15

Trp Leu Gly Ala Gly Val Ser Gly Gly Ser Glu Thr Ala Ser Thr Gly
20 25 30

Pro Thr Ile Thr Ala Gly Ala Val Thr Asn Ala Ser Glu Ala Pro Thr
35 40 45

Ser Gly Ser Pro Gly Ser Ala Ala Ser Pro Glu Val Thr Pro Thr Ser
50 55 60

Thr Pro Asn Pro Asn Asn Val Thr Gln Asn Lys Thr Thr Pro Thr Glu
65 70 75 80

Pro Ala Ser Pro Pro Thr Thr Pro Lys Pro Thr Ser Thr Pro Lys Ser
85 90 95

Pro Pro Thr Ser Thr Pro Asp Pro Lys Pro Lys Asn Asn Thr Thr Pro
100 105 110

Ala Lys Ser Gly Arg Pro Thr Lys Pro Pro Gly Pro Val Trp Cys Asp
115 120 125

Arg Arg Asp Pro Leu Ala Arg Tyr Gly Ser Arg Val Gln Ile Arg Cys
130 135 140

Arg Phe Arg Asn Ser Thr Arg Met Glu Phe Arg Leu Gln Ile Trp Arg
145 150 155 160

Tyr Ser Met Gly Pro Ser Pro Pro Ile Ala Pro Ala Pro Asp Leu Glu
165 170 175

Glu Val Leu Thr Asn Ile Thr Ala Pro Pro Gly Gly Leu Leu Val Tyr
180 185 190

Asp Ser Ala Pro Asn Leu Thr Asp Pro His Val Leu Trp Ala Glu Gly
195 200 205

Ala Gly Pro Gly Ala Asp Pro Pro Leu Tyr Ser Val Thr Gly Pro Leu
210 215 220

Pro Thr Gln Arg Leu Ile Ile Gly Glu Val Thr Pro Ala Thr Gln Gly
225 230 235 240

Met Tyr Tyr Leu Ala Trp Gly Arg Met Asp Ser Pro His Glu Tyr Gly
245 250 255

Thr Trp Val Arg Val Arg Met Phe Arg Pro Pro Ser Leu Thr Leu Gln
260 265 270

Pro His Ala Val Met Glu Gly Gln Pro Phe Lys Ala Thr Cys Thr Ala
275 280 285

Ala Ala Tyr Tyr Pro Arg Asn Pro Val Glu Phe Val Trp Phe Glu Asp

290	295	300
Asp His Gln Val Phe Asn Pro Gly Gln Ile Asp Thr Gln Thr His Glu		
305	310	315 320
His Pro Asp Gly Phe Thr Thr Val Ser Thr Val Thr Ser Glu Ala Val		
	325	330 335
Gly Gly Gln Val Pro Pro Arg Thr Phe Thr Cys Gln Met Thr Trp His		
	340	345 350
Arg Asp Ser Val Thr Phe Ser Arg Arg Asn Ala Thr Gly Leu Ala Leu		
	355	360 365
Val Leu Pro Arg Pro Thr Ile Thr Met Glu Phe Gly Val Arg Ile Val		
	370	375 380
Val Cys Thr Ala Gly Cys Val Pro Glu Gly Val Thr Phe Ala Trp Phe		
	385	390 395 400
Leu Gly Asp Asp Pro Ser Pro Ala Ala Lys Ser Ala Val Thr Ala Gln		
	405	410 415
Glu Ser Cys Asp His Pro Gly Leu Ala Thr Val Arg Ser Thr Leu Pro		
	420	425 430
Ile Ser Tyr Asp Tyr Ser Glu Tyr Ile Cys Arg Leu Thr Gly Tyr Pro		
	435	440 445
Ala Gly Ile Pro Val Leu Glu His His Gly Ser His Gln Pro Pro Pro		
	450	455 460
Arg Asp Pro Thr Glu Arg Gln Val Ile Glu Ala Ile Glu Trp Val Gly		
	465	470 475 480
Ile Gly Ile Gly Val Leu Ala Ala Gly Val Leu Val Val Thr Ala Ile		
	485	490 495
Val Tyr Val Val Arg Thr Ser Gln Ser Arg Gln Arg His Arg Arg		
	500	505 510

<210> 91

<211> 843

<212> DNA

<213> Herpes Virus

<400> 91

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gatgagtacg aggatctgta ctacaccccg tcttcaggta tggcgagtcc cgatagtccg 60
cctgacacct cccgccgtgg cgccctacag acacgctcgc gccagagggg cgaggtccgt 120
ttcgtccagt acgacgagtc ggattatgcc ctctacgggg gctcgtcatc cgaagacgac 180
gaacacccgg aggtcccccg gacgcggcgt cccgtttccg gggcggtttt gtccggcccc 240
gggcctgcgc gggcgctcc gccacccgct gggtcggag gggccggacg cacaccacc 300
accgcccccc gggccccccg aaccagcgg gtggcgacta aggccccgc ggccccggcg 360
gcgagacca cccgcggcag gaaatcggcc cagccagaat ccgccgact ccagacgcc 420
cccgcgtcga cggcgccaac ccgatccaag acaccgcgc aggggctggc cagaaagctg 480
cacttttagca ccgccccccc aaaccccgac gcgccatgga cccccgggt ggccggcttt 540

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aacaagcgcg tcttctgcgc cgcggtcggg cgcctggcgg ccatgcatgc ccggatggcg 600
gcggtccagc tctgggacat gtcgcgtccg cgcacagacg aagacctcaa cgaactcctt 660
ggcatcacca ccatccgcgt gacggtctgc gagggcaaaa acctgcttca gcgcgccaac 720
gagttggtga atccagacgt ggtgcaggac gtcgacgcgg ccacggcgac tcgagggcgt 780
tctgcggcgt cgcgccccac cgagcgacct cgagccccag cccgctccgc ttctcgcccc 840
aga

```

<210> 92
 <211> 281
 <212> PRT
 <213> Herpes Virus

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<400> 92
Asp Glu Tyr Glu Asp Leu Tyr Tyr Thr Pro Ser Ser Gly Met Ala Ser
  1              5              10              15

Pro Asp Ser Pro Pro Asp Thr Ser Arg Arg Gly Ala Leu Gln Thr Arg
      20              25              30

Ser Arg Gln Arg Gly Glu Val Arg Phe Val Gln Tyr Asp Glu Ser Asp
      35              40              45

Tyr Ala Leu Tyr Gly Gly Ser Ser Ser Glu Asp Asp Glu His Pro Glu
      50              55              60

Val Pro Arg Thr Arg Arg Pro Val Ser Gly Ala Val Leu Ser Gly Pro
      65              70              75              80

Gly Pro Ala Arg Ala Pro Pro Pro Pro Ala Gly Ser Gly Gly Ala Gly
      85              90              95

Arg Thr Pro Thr Thr Ala Pro Arg Ala Pro Arg Thr Gln Arg Val Ala
      100             105             110

Thr Lys Ala Pro Ala Ala Pro Ala Ala Glu Thr Thr Arg Gly Arg Lys
      115             120             125

Ser Ala Gln Pro Glu Ser Ala Ala Leu Pro Asp Ala Pro Ala Ser Thr
      130             135             140

Ala Pro Thr Arg Ser Lys Thr Pro Ala Gln Gly Leu Ala Arg Lys Leu
      145             150             155             160

His Phe Ser Thr Ala Pro Pro Asn Pro Asp Ala Pro Trp Thr Pro Arg
      165             170             175

Val Ala Gly Phe Asn Lys Arg Val Phe Cys Ala Ala Val Gly Arg Leu
      180             185             190

Ala Ala Met His Ala Arg Met Ala Ala Val Gln Leu Trp Asp Met Ser
      195             200             205

Arg Pro Arg Thr Asp Glu Asp Leu Asn Glu Leu Leu Gly Ile Thr Thr
      210             215             220

Ile Arg Val Thr Val Cys Glu Gly Lys Asn Leu Leu Gln Arg Ala Asn

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cacgccgacc cgcgggcgctt ccattttcac gccccgcca cctatctcgc ttccccccgg 540
 gagatccgtg tctgcacag cctgggtggg gactatgtga gcttctttga aaggaaggcg 600
 tcccgcacg cgctggaaca ctttgggcga cgcgagacc tgacggaggt cctgggtcgg 660
 tacaacgtac agccggatgc gggggggacc gtcgaggggt tcgcatcgga actgctgggg 720
 cggatagtcg cgtgcatcga aaccacttt cccgaacacg ccggcgaata tcaggccgta 780
 tccgtccggc gggccgtcag taaggacgac tgggtcctcc tacagctagt ccccgttcgc 840
 ggtaccctgc agcaaagcct gtcgtgtctg cgctttaagc acggccgggc gagtcgcgcc 900
 acggcgcgga cattcgtcgc gctgagcgtc ggggccaaca accgcctgtg cgtgtccttg 960
 tgtcagcagt gctttgccgc caaatgcgac agcaaccgcc tgcacacgct gtttaccatt 1020
 gac 1023

<210> 96
 <211> 341
 <212> PRT
 <213> Herpes Virus

<400> 96
 Asp Trp Phe Pro Cys Tyr Asp Asp Ala Gly Asp Glu Glu Trp Ala Glu
 1 5 10 15
 Asp Pro Gly Ala Met Asp Thr Ser His Asp Pro Pro Asp Asp Glu Val
 20 25 30
 Ala Tyr Phe Asp Leu Cys His Glu Val Gly Pro Thr Ala Glu Pro Arg
 35 40 45
 Glu Thr Asp Ser Pro Val Cys Ser Cys Thr Asp Lys Ile Gly Leu Arg
 50 55 60
 Val Cys Met Pro Val Pro Ala Pro Tyr Val Val His Gly Ser Leu Thr
 65 70 75 80
 Met Arg Gly Val Ala Arg Val Ile Gln Gln Ala Val Leu Leu Asp Arg
 85 90 95
 Asp Phe Val Glu Ala Ile Gly Ser Tyr Val Lys Asn Phe Leu Leu Ile
 100 105 110
 Asp Thr Gly Val Tyr Ala His Gly His Ser Leu Arg Leu Pro Tyr Phe
 115 120 125
 Ala Lys Ile Ala Pro Asp Gly Pro Ala Cys Gly Arg Leu Leu Pro Val
 130 135 140
 Phe Val Ile Pro Pro Ala Cys Lys Asp Val Pro Ala Phe Val Ala Ala
 145 150 155 160
 His Ala Asp Pro Arg Arg Phe His Phe His Ala Pro Pro Thr Tyr Leu
 165 170 175
 Ala Ser Pro Arg Glu Ile Arg Val Leu His Ser Leu Gly Gly Asp Tyr
 180 185 190
 Val Ser Phe Phe Glu Arg Lys Ala Ser Arg Asn Ala Leu Glu His Phe
 195 200 205

Gly Arg Arg Glu Thr Leu Thr Glu Val Leu Gly Arg Tyr Asn Val Gln
 210 215 220
 Pro Asp Ala Gly Gly Thr Val Glu Gly Phe Ala Ser Glu Leu Leu Gly
 225 230 235 240
 Arg Ile Val Ala Cys Ile Glu Thr His Phe Pro Glu His Ala Gly Glu
 245 250 255
 Tyr Gln Ala Val Ser Val Arg Arg Ala Val Ser Lys Asp Asp Trp Val
 260 265 270
 Leu Leu Gln Leu Val Pro Val Arg Gly Thr Leu Gln Gln Ser Leu Ser
 275 280 285
 Cys Leu Arg Phe Lys His Gly Arg Ala Ser Arg Ala Thr Ala Arg Thr
 290 295 300
 Phe Val Ala Leu Ser Val Gly Ala Asn Asn Arg Leu Cys Val Ser Leu
 305 310 315 320
 Cys Gln Gln Cys Phe Ala Ala Lys Cys Asp Ser Asn Arg Leu His Thr
 325 330 335
 Leu Phe Thr Ile Asp
 340

<210> 97
 <211> 3177
 <212> DNA
 <213> Herpes Virus

<400> 97
 atggggcagg aagacgggaa ccgcggggag aggcggggcgg ccgggactcc cgtggaggtg 60
 accgcgcttt atgcgaccga cgggtgcgtt attacctctt cgatcgccct cctcacaac 120
 tctctactgg gggccgagcc ggtttatata ttcagctacg acgcatacac gcacgatggc 180
 cgtgccgacg ggcccacgga gcaagacagg ttcgaagaga gtcggggcgt ctaccaagcg 240
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<210> 98
 <211> 1058
 <212> PRT
 <213> Herpes Virus

<400> 98
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 35 40 45
 Tyr Ile Phe Ser Tyr Asp Ala Tyr Thr His Asp Gly Arg Ala Asp Gly
 50 55 60
 Pro Thr Glu Gln Asp Arg Phe Glu Glu Ser Arg Ala Leu Tyr Gln Ala
 65 70 75 80
 Ser Gly Gly Leu Asn Gly Asp Ser Phe Arg Val Thr Phe Cys Leu Leu
 85 90 95
 Gly Thr Glu Val Gly Gly Thr His Gln Ala Arg Gly Arg Thr Arg Pro

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Met	Phe	Val	Cys	Arg	Phe	Glu	Arg	Ala	Asp	Asp	Val	Ala	Ala	Leu	Gln
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Asp	Ala	Leu	Ala	His	Gly	Thr	Pro	Leu	Gln	Pro	Asp	His	Ile	Ala	Ala
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Thr	Leu	Asp	Ala	Glu	Ala	Thr	Phe	Ala	Leu	His	Ala	Asn	Met	Ile	Leu
	145					150					155				160
Ala	Leu	Thr	Val	Ala	Ile	Asn	Asn	Ala	Ser	Pro	Arg	Thr	Gly	Arg	Asp
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Ala	Ala	Ala	Ala	Gln	Tyr	Asp	Gln	Gly	Ala	Ser	Leu	Arg	Ser	Leu	Val
			180					185					190		
Gly	Arg	Thr	Ser	Leu	Gly	Gln	Arg	Gly	Leu	Thr	Thr	Leu	Tyr	Val	His
		195					200					205			
His	Glu	Val	Arg	Val	Leu	Ala	Ala	Tyr	Arg	Arg	Ala	Tyr	Tyr	Gly	Ser
	210					215					220				
Ala	Gln	Ser	Pro	Phe	Trp	Phe	Leu	Ser	Lys	Phe	Gly	Pro	Asp	Glu	Lys
	225					230					235				240
Ser	Leu	Val	Leu	Thr	Thr	Arg	Tyr	Tyr	Leu	Leu	Gln	Ala	Gln	Arg	Leu
			245						250					255	
Gly	Gly	Ala	Gly	Ala	Thr	Tyr	Asp	Leu	Gln	Ala	Ile	Lys	Asp	Ile	Cys
			260					265					270		
Ala	Thr	Tyr	Ala	Ile	Pro	His	Ala	Pro	Arg	Pro	Asp	Thr	Val	Ser	Ala
		275					280					285			
Ala	Ser	Leu	Thr	Ser	Phe	Ala	Ala	Ile	Thr	Arg	Phe	Cys	Cys	Thr	Ser
		290					295					300			
Gln	Tyr	Ala	Arg	Gly	Ala	Ala	Ala	Ala	Gly	Phe	Pro	Leu	Tyr	Val	Glu
	305					310					315				320
Arg	Arg	Ile	Ala	Ala	Asp	Val	Arg	Glu	Thr	Ser	Ala	Leu	Glu	Lys	Phe
			325						330					335	
Ile	Thr	His	Asp	Arg	Ser	Cys	Leu	Arg	Val	Ser	Asp	Arg	Glu	Phe	Ile
			340					345					350		
Thr	Tyr	Ile	Tyr	Leu	Ala	His	Phe	Glu	Cys	Phe	Ser	Pro	Pro	Arg	Leu
		355					360					365			
Ala	Thr	His	Leu	Arg	Ala	Val	Thr	Thr	His	Asp	Pro	Asn	Pro	Ala	Ala
		370					375					380			
Ser	Thr	Glu	Gln	Pro	Ser	Pro	Leu	Gly	Arg	Glu	Ala	Val	Glu	Gln	Phe
	385					390					395				400
Phe	Cys	His	Val	Arg	Ala	Gln	Leu	Asn	Ile	Gly	Glu	Tyr	Val	Lys	His

405					410					415					
Asn	Val	Thr	Pro	Arg	Glu	Thr	Val	Leu	Asp	Gly	Asp	Thr	Ala	Lys	Ala
			420					425					430		
Tyr	Leu	Arg	Ala	Arg	Thr	Tyr	Ala	Pro	Gly	Ala	Leu	Thr	Pro	Ala	Pro
			435					440					445		
Ala	Tyr	Cys	Gly	Ala	Val	Asp	Ser	Ala	Thr	Lys	Met	Met	Gly	Arg	Leu
			450					455					460		
Ala	Asp	Ala	Glu	Lys	Leu	Leu	Val	Pro	Arg	Gly	Trp	Pro	Ala	Phe	Ala
			465					470					475		480
Pro	Ala	Ser	Pro	Gly	Glu	Asp	Thr	Ala	Gly	Gly	Thr	Pro	Pro	Pro	Gln
				485					490					495	
Thr	Cys	Gly	Ile	Val	Lys	Arg	Leu	Leu	Arg	Leu	Ala	Ala	Thr	Glu	Gln
			500					505					510		
Gln	Gly	Pro	Thr	Pro	Pro	Ala	Ile	Ala	Ala	Leu	Ile	Arg	Asn	Ala	Ala
			515					520					525		
Val	Gln	Thr	Pro	Leu	Pro	Val	Tyr	Arg	Ile	Ser	Met	Val	Pro	Thr	Gly
			530					535					540		
Gln	Ala	Phe	Ala	Ala	Leu	Ala	Trp	Asp	Asp	Trp	Ala	Arg	Ile	Thr	Arg
			545					550					555		560
Asp	Ala	Arg	Leu	Ala	Glu	Ala	Val	Val	Ser	Ala	Glu	Ala	Ala	Ala	His
			565						570					575	
Pro	Asp	His	Gly	Ala	Leu	Gly	Arg	Arg	Leu	Thr	Asp	Arg	Ile	Arg	Ala
			580					585					590		
Gln	Gly	Pro	Val	Met	Pro	Pro	Gly	Gly	Leu	Asp	Ala	Gly	Gly	Gln	Met
			595					600					605		
Tyr	Val	Asn	Arg	Asn	Glu	Ile	Phe	Asn	Gly	Ala	Leu	Ala	Ile	Thr	Asn
			610					615					620		
Ile	Ile	Leu	Asp	Leu	Asp	Ile	Ala	Leu	Lys	Glu	Pro	Val	Pro	Phe	Arg
			625					630					635		640
Arg	Leu	His	Glu	Ala	Leu	Gly	His	Phe	Arg	Arg	Gly	Ala	Leu	Ala	Ala
			645						650				655		
Val	Gln	Leu	Leu	Phe	Pro	Ala	Ala	Arg	Val	Asp	Pro	Asp	Ala	Tyr	Pro
			660					665					670		
Cys	Tyr	Phe	Phe	Lys	Ser	Ala	Cys	Arg	Pro	Gly	Pro	Ala	Ser	Val	Gly
			675					680					685		
Ser	Gly	Ser	Gly	Leu	Gly	Asn	Asp	Asp	Asp	Gly	Asp	Trp	Phe	Pro	Cys
			690					695					700		
Tyr	Asp	Asp	Ala	Gly	Asp	Glu	Glu	Trp	Ala	Glu	Asp	Pro	Gly	Ala	Met

705		710		715		720
Asp Thr Ser His	Asp Pro Pro Asp Asp	Glu Val Ala Tyr Phe	Asp Leu			
	725	730	735			
Cys His Glu Val	Gly Pro Thr Ala	Glu Pro Arg Glu Thr	Asp Ser Pro			
	740	745	750			
Val Cys Ser Cys	Thr Asp Lys Ile	Gly Leu Arg Val	Cys Met Pro Val			
	755	760	765			
Pro Ala Pro Tyr	Val Val His Gly	Ser Leu Thr Met	Arg Gly Val Ala			
	770	775	780			
Arg Val Ile Gln	Gln Ala Val Leu	Leu Asp Arg Asp	Phe Val Glu Ala			
	785	790	795	800		
Ile Gly Ser Tyr	Val Lys Asn Phe	Leu Leu Ile Asp	Thr Gly Val Tyr			
	805	810	815			
Ala His Gly His	Ser Leu Arg Leu	Pro Tyr Phe Ala	Lys Ile Ala Pro			
	820	825	830			
Asp Gly Pro Ala	Cys Gly Arg Leu	Leu Pro Val Phe	Val Ile Pro Pro			
	835	840	845			
Ala Cys Lys Asp	Val Pro Ala Phe	Val Ala Ala His	Ala Asp Pro Arg			
	850	855	860			
Arg Phe His Phe	His Ala Pro Pro	Thr Tyr Leu Ala	Ser Pro Arg Glu			
	865	870	875	880		
Ile Arg Val Leu	His Ser Leu Gly	Gly Asp Tyr Val	Ser Phe Phe Glu			
	885	890	895			
Arg Lys Ala Ser	Arg Asn Ala Leu	Glu His Phe Gly	Arg Arg Glu Thr			
	900	905	910			
Leu Thr Glu Val	Leu Gly Arg Tyr	Asn Val Gln Pro	Asp Ala Gly Gly			
	915	920	925			
Thr Val Glu Gly	Phe Ala Ser Glu	Leu Leu Gly Arg	Ile Val Ala Cys			
	930	935	940			
Ile Glu Thr His	Phe Pro Glu His	Ala Gly Glu Tyr	Gln Ala Val Ser			
	945	950	955	960		
Val Arg Arg Ala	Val Ser Lys Asp	Asp Trp Val Leu	Leu Gln Leu Val			
	965	970	975			
Pro Val Arg Gly	Thr Leu Gln Gln	Ser Leu Ser Cys	Leu Arg Phe Lys			
	980	985	990			
His Gly Arg Ala	Ser Arg Ala Thr	Ala Arg Thr Phe	Val Ala Leu Ser			
	995	1000	1005			
Val Gly Ala Asn	Asn Arg Leu Cys	Val Ser Leu Cys	Gln Gln Cys Phe			

1010 1015 1020
Ala Ala Lys Cys Asp Ser Asn Arg Leu His Thr Leu Phe Thr Ile Asp
1025 1030 1035 1040
Ala Gly Thr Pro Cys Ser Pro Ser Val Pro Cys Ser Thr Ser Gln Pro
1045 1050 1055
Ser Ser

<210> 99
<211> 701
<212> DNA
<213> Herpes Virus

<400> 99
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ggcctgatcg aaatcctaga cacgcaccgc caggagtgtt c 701

<210> 100
<211> 233
<212> PRT
<213> Herpes Virus

<400> 100
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Gln Pro Phe Pro Ala Ala Asn Ser Pro Trp Ala Pro Val Leu Ala Gly
35 40 45
Gln Gly Gly Pro Phe Asp Ala Glu Thr Arg Arg Val Ser Trp Glu Thr
50 55 60
Leu Val Ala His Gly Pro Ser Leu Tyr Arg Thr Phe Ala Gly Asn Pro
65 70 75 80
Arg Ala Ala Ser Thr Ala Lys Ala Met Arg Asp Cys Val Leu Arg Gln
85 90 95
Glu Asn Phe Ile Glu Ala Leu Ala Ser Ala Asp Glu Thr Leu Ala Trp

100	105	110
Cys Lys Met Cys Ile His His Asn Leu Pro Leu Arg Pro Gln Asp Pro		
115	120	125
Ile Ile Gly Thr Thr Ala Ala Val Leu Asp Asn Leu Ala Thr Arg Leu		
130	135	140
Arg Pro Phe Leu Gln Cys Tyr Leu Lys Ala Arg Gly Leu Cys Gly Leu		
145	150	155
Asp Glu Leu Cys Ser Arg Arg Arg Leu Ala Asp Ile Lys Asp Ile Ala		
165	170	175
Ser Phe Val Phe Val Ile Leu Ala Arg Leu Ala Asn Arg Val Glu Arg		
180	185	190
Gly Val Ala Glu Ile Asp Tyr Ala Thr Leu Gly Val Gly Val Gly Glu		
195	200	205
Lys Met His Phe Tyr Leu Pro Gly Ala Cys Met Ala Gly Leu Ile Glu		
210	215	220
Ile Leu Asp Thr His Arg Gln Glu Cys		
225	230	

<210> 101
 <211> 1539
 <212> DNA
 <213> Herpes Virus

<400> 101
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<210> 102
 <211> 512
 <212> PRT
 <213> Herpes Virus

<400> 102
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 Asp Asp Leu Glu Ser Asp Ser Ser Gly Glu Cys Ser Ser Ser Asp Glu
 35 40 45
 Asp Met Glu Asp Pro His Gly Glu Asp Gly Pro Glu Pro Ile Leu Asp
 50 55 60
 Ala Ala Arg Pro Ala Val Arg Pro Ser Arg Pro Glu Asp Pro Gly Val
 65 70 75 80
 Pro Ser Thr Gln Thr Pro Arg Pro Thr Glu Arg Gln Gly Pro Asn Asp
 85 90 95
 Pro Gln Pro Ala Pro His Ser Val Trp Ser Arg Leu Gly Ala Arg Arg
 100 105 110
 Pro Ser Cys Ser Pro Glu Gln His Gly Gly Lys Val Ala Arg Leu Gln
 115 120 125
 Pro Pro Pro Thr Lys Ala Gln Pro Ala Arg Gly Gly Arg Arg Gly Arg
 130 135 140
 Arg Arg Gly Arg Gly Arg Gly Gly Pro Gly Ala Ala Asp Gly Leu Ser
 145 150 155 160
 Asp Pro Arg Arg Arg Ala Pro Arg Thr Asn Arg Asn Pro Gly Gly Pro
 165 170 175
 Arg Pro Gly Ala Gly Trp Thr Asp Gly Pro Gly Ala Pro His Gly Glu
 180 185 190
 Ala Trp Arg Gly Ser Glu Gln Pro Asp Pro Pro Gly Gly Gln Arg Thr
 195 200 205
 Arg Gly Val Arg Gln Ala Pro Pro Pro Leu Met Thr Leu Ala Ile Ala
 210 215 220
 Pro Pro Pro Ala Asp Pro Arg Ala Pro Ala Pro Glu Arg Lys Ala Pro
 225 230 235 240
 Ala Ala Asp Thr Ile Asp Ala Thr Thr Arg Leu Val Leu Arg Ser Ile
 245 250 255

Ser Glu Arg Ala Ala Val Asp Arg Ile Ser Glu Ser Phe Gly Arg Ser
 260 265 270
 Ala Gln Val Met His Asp Pro Phe Gly Gly Gln Pro Phe Pro Ala Ala
 275 280 285
 Asn Ser Pro Trp Ala Pro Val Leu Ala Gly Gln Gly Gly Pro Phe Asp
 290 295 300
 Ala Glu Thr Arg Arg Val Ser Trp Glu Thr Leu Val Ala His Gly Pro
 305 310 315 320
 Ser Leu Tyr Arg Thr Phe Ala Gly Asn Pro Arg Ala Ala Ser Thr Ala
 325 330 335
 Lys Ala Met Arg Asp Cys Val Leu Arg Gln Glu Asn Phe Ile Glu Ala
 340 345 350
 Leu Ala Ser Ala Asp Glu Thr Leu Ala Trp Cys Lys Met Cys Ile His
 355 360 365
 His Asn Leu Pro Leu Arg Pro Gln Asp Pro Ile Ile Gly Thr Thr Ala
 370 375 380
 Ala Val Leu Asp Asn Leu Ala Thr Arg Leu Arg Pro Phe Leu Gln Cys
 385 390 395 400
 Tyr Leu Lys Ala Arg Gly Leu Cys Gly Leu Asp Glu Leu Cys Ser Arg
 405 410 415
 Arg Arg Leu Ala Asp Ile Lys Asp Ile Ala Ser Phe Val Phe Val Ile
 420 425 430
 Leu Ala Arg Leu Ala Asn Arg Val Glu Arg Gly Val Ala Glu Ile Asp
 435 440 445
 Tyr Ala Thr Leu Gly Val Gly Val Gly Glu Lys Met His Phe Tyr Leu
 450 455 460
 Pro Gly Ala Cys Met Ala Gly Leu Ile Glu Ile Leu Asp Thr His Arg
 465 470 475 480
 Gln Glu Cys Ser Ser Arg Val Cys Glu Leu Thr Ala Ser His Ile Val
 485 490 495
 Ala Pro Pro Tyr Val His Gly Lys Tyr Phe Tyr Cys Asn Ser Leu Phe
 500 505 510

<210> 103
 <211> 974
 <212> DNA
 <213> Herpes Virus

<400> 103

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cagggcatta tccaccgcga cattaagacc gaaaatattt ttattaacac ccccgaggac 960
atttgctggy ggga 974
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<210> 104

<211> 324

<212> PRT

<213> Herpes Virus

<400> 104

```
Arg Arg Met Ala Cys Arg Lys Phe Cys Arg Val Tyr Gly Gly Gln Gly
 1             5             10             15

Arg Arg Lys Glu Glu Ala Val Pro Pro Glu Thr Lys Pro Ser Arg Val
 20             25             30

Phe Pro His Gly Pro Phe Tyr Thr Pro Ala Glu Asp Ala Cys Leu Asp
 35             40             45

Ser Pro Pro Pro Glu Thr Pro Lys Pro Ser His Thr Thr Pro Pro Ser
 50             55             60

Glu Ala Glu Arg Leu Cys His Leu Gln Glu Ile Leu Ala Gln Met Tyr
 65             70             75             80

Gly Asn Gln Asp Tyr Pro Ile Glu Asp Asp Pro Ser Ala Asp Ala Ala
 85             90             95

Asp Asp Val Asp Glu Asp Ala Pro Asp Asp Val Ala Tyr Pro Glu Glu
100            105            110

Tyr Ala Glu Glu Leu Phe Leu Pro Gly Asp Ala Thr Gly Pro Leu Ile
115            120            125

Gly Ala Asn Asp His Ile Pro Pro Pro Cys Gly Ala Ser Pro Pro Gly
130            135            140

Ile Arg Arg Arg Ser Arg Asp Glu Ile Gly Ala Thr Gly Phe Thr Ala
145            150            155            160
```

Glu Glu Leu Asp Ala Met Asp Arg Glu Ala Ala Arg Ala Ile Ser Arg
 165 170 175
 Gly Gly Lys Pro Pro Ser Thr Met Ala Lys Leu Val Thr Gly Met Gly
 180 185 190
 Phe Thr Ile His Gly Ala Leu Thr Pro Gly Ser Glu Gly Cys Val Phe
 195 200 205
 Asp Ser Ser His Pro Asp Tyr Pro Gln Arg Val Ile Val Lys Ala Gly
 210 215 220
 Trp Tyr Thr Ser Thr Ser His Glu Ala Arg Leu Leu Arg Arg Leu Asp
 225 230 235 240
 His Pro Ala Ile Leu Pro Leu Leu Asp Leu His Val Val Ser Gly Val
 245 250 255
 Thr Cys Leu Val Leu Pro Lys Tyr Gln Ala Asp Leu Tyr Thr Tyr Leu
 260 265 270
 Ser Arg Arg Leu Asn Pro Leu Gly Arg Pro Gln Ile Ala Ala Val Ser
 275 280 285
 Arg Gln Leu Leu Ser Ala Val Asp Tyr Ile His Arg Gln Gly Ile Ile
 290 295 300
 His Arg Asp Ile Lys Thr Glu Asn Ile Phe Ile Asn Thr Pro Glu Asp
 305 310 315 320
 Ile Cys Leu Gly

<210> 105
 <211> 1446
 <212> DNA
 <213> Herpes Virus

<400> 105
 atggcctgtc gtaagttttg tcgcgtttac gggggacagg gcaggaggaa ggaggaggcc 60
 gtcccgccgg agacaaagcc gtcccggtg tttcctcatg gcccctttta taccacagcc 120
 gaggacgcgt gcctggactc cccgcccccg gagaccccca aaccttccca caccacacca 180
 cccagcgagg ccgagcgcc tgtgtcatctg caggagatcc ttgcccagat gtacggaaac 240
 caggactacc ccatagagga cgacccacgc gcggatgccg cggacgatgt cgacgaggac 300
 gccccggacg acgtggccta tccggaggaa tacgcagagg agctttttct gcccggggac 360
 gcgaccggtc cccttatcgg ggccaacgac cacatccctc ccccggtgtg cgcactctcc 420
 cccggtatac gacgacgcag ccgggatgag attggggcca cgggatttac cgcggaagag 480
 ctggacgcca tggacagggg ggcggtcga gccatcagcc gcggcgcaa gccccctcg 540
 accatggcca agctggtgac tggcatgggc tttacgatcc acggagcgct caccacagga 600
 tcggaggggt gtgtctttga cagcagccat ccagattacc cccaacgggt aatcgtgaag 660
 gcgggggtgt acacgagcac gagccacgag gcgcgactgc tgaggcgact ggaccacccg 720
 gcgatcctgc cctcctgga cctgcattgc gtctccgggg tcacgtgtct ggtcctcccc 780
 aagtaccagg ccgacctgta tacctatctg agtaggcgcc tgaaccact gggacgcccg 840
 cagatcgag cggctctccg gcagctccta agcgccgttg actacattca ccgccagggc 900
 attatccacc gcgacattaa gaccgaaaat atttttatta acacccccga ggacatttgc 960
 ctgggggact ttggcgccgc gtgcttcgtg cagggttccc gatcaagccc cttcccctac 1020


```

ggaatcgccg gaaccatcga caccaacgcc cccgaggtcc tggccgggga tccgtatacc 1080
acgaccgtcg acatttggag cgccggtctg gtgatcttcg agactgccgt ccacaacgcg 1140
tccttggttct cggccccccg cggccccaaa agggggcccg gcgacagtca gatcaccgcg 1200
atcatccgac aggcccaggt ccacgttgac gagttttccc cgcattccaga atcgcgccctc 1260
acctcgcgct accgtccccg cgcggccggg aacaatcgcc cgccgtacac ccgaccggcc 1320
tggaccgcgt actacaagat ggacatagac gtcgaatata tggtttgcaa agccctcacc 1380
ttcgacggcg cgcttcgccc cagcgccgca gagctgcttt gtttgccgct gtttcaacag 1440
aaatga 1446

```

<210> 106
 <211> 481
 <212> PRT
 <213> Herpes Virus

```

<400> 106
Met Ala Cys Arg Lys Phe Cys Arg Val Tyr Gly Gly Gln Gly Arg Arg
  1             5             10             15

Lys Glu Glu Ala Val Pro Pro Glu Thr Lys Pro Ser Arg Val Phe Pro
      20             25             30

His Gly Pro Phe Tyr Thr Pro Ala Glu Asp Ala Cys Leu Asp Ser Pro
      35             40             45

Pro Pro Glu Thr Pro Lys Pro Ser His Thr Thr Pro Pro Ser Glu Ala
      50             55             60

Glu Arg Leu Cys His Leu Gln Glu Ile Leu Ala Gln Met Tyr Gly Asn
      65             70             75             80

Gln Asp Tyr Pro Ile Glu Asp Asp Pro Ser Ala Asp Ala Ala Asp Asp
      85             90             95

Val Asp Glu Asp Ala Pro Asp Asp Val Ala Tyr Pro Glu Glu Tyr Ala
      100            105            110

Glu Glu Leu Phe Leu Pro Gly Asp Ala Thr Gly Pro Leu Ile Gly Ala
      115            120            125

Asn Asp His Ile Pro Pro Pro Cys Gly Ala Ser Pro Pro Gly Ile Arg
      130            135            140

Arg Arg Ser Arg Asp Glu Ile Gly Ala Thr Gly Phe Thr Ala Glu Glu
      145            150            155            160

Leu Asp Ala Met Asp Arg Glu Ala Ala Arg Ala Ile Ser Arg Gly Gly
      165            170            175

Lys Pro Pro Ser Thr Met Ala Lys Leu Val Thr Gly Met Gly Phe Thr
      180            185            190

Ile His Gly Ala Leu Thr Pro Gly Ser Glu Gly Cys Val Phe Asp Ser
      195            200            205

Ser His Pro Asp Tyr Pro Gln Arg Val Ile Val Lys Ala Gly Trp Tyr
      210            215            220

```

Thr Ser Thr Ser His Glu Ala Arg Leu Leu Arg Arg Leu Asp His Pro
 225 230 235 240
 Ala Ile Leu Pro Leu Leu Asp Leu His Val Val Ser Gly Val Thr Cys
 245 250 255
 Leu Val Leu Pro Lys Tyr Gln Ala Asp Leu Tyr Thr Tyr Leu Ser Arg
 260 265 270
 Arg Leu Asn Pro Leu Gly Arg Pro Gln Ile Ala Ala Val Ser Arg Gln
 275 280 285
 Leu Leu Ser Ala Val Asp Tyr Ile His Arg Gln Gly Ile Ile His Arg
 290 295 300
 Asp Ile Lys Thr Glu Asn Ile Phe Ile Asn Thr Pro Glu Asp Ile Cys
 305 310 315 320
 Leu Gly Asp Phe Gly Ala Ala Cys Phe Val Gln Gly Ser Arg Ser Ser
 325 330 335
 Pro Phe Pro Tyr Gly Ile Ala Gly Thr Ile Asp Thr Asn Ala Pro Glu
 340 345 350
 Val Leu Ala Gly Asp Pro Tyr Thr Thr Thr Val Asp Ile Trp Ser Ala
 355 360 365
 Gly Leu Val Ile Phe Glu Thr Ala Val His Asn Ala Ser Leu Phe Ser
 370 375 380
 Ala Pro Arg Gly Pro Lys Arg Gly Pro Cys Asp Ser Gln Ile Thr Arg
 385 390 395 400
 Ile Ile Arg Gln Ala Gln Val His Val Asp Glu Phe Ser Pro His Pro
 405 410 415
 Glu Ser Arg Leu Thr Ser Arg Tyr Arg Ser Arg Ala Ala Gly Asn Asn
 420 425 430
 Arg Pro Pro Tyr Thr Arg Pro Ala Trp Thr Arg Tyr Tyr Lys Met Asp
 435 440 445
 Ile Asp Val Glu Tyr Leu Val Cys Lys Ala Leu Thr Phe Asp Gly Ala
 450 455 460
 Leu Arg Pro Ser Ala Ala Glu Leu Leu Cys Leu Pro Leu Phe Gln Gln
 465 470 475 480

Lys

<210> 107
 <211> 261
 <212> DNA
 <213> Herpes Virus

<400> 107

```
gtctggcatc tggggccttt gggaagcctc gtgggggctg ttcttgccgc caccatcgg 60
ggacctgcgg ccaacacaac ggaccctta acgcacgccc cagtgtcccc tcacccacagc 120
cccctggggg gctttgccgt cccctcgtta gtcggtgggc tgtgcgccgt agtcctgggg 180
gcggcattgc tgcttgagct cctgcgtcgt acgtgccgcg ggtgggggcg ttaccatccc 240
tacatggacc cagttgtcgt a 261
```

<210> 108

<211> 87

<212> PRT

<213> Herpes Virus

<400> 108

```
Val Trp His Leu Gly Leu Leu Gly Ser Leu Val Gly Ala Val Leu Ala
  1             5             10             15

Ala Thr His Arg Gly Pro Ala Ala Asn Thr Thr Asp Pro Leu Thr His
      20             25             30

Ala Pro Val Ser Pro His Pro Ser Pro Leu Gly Gly Phe Ala Val Pro
      35             40             45

Leu Val Val Gly Gly Leu Cys Ala Val Val Leu Gly Ala Ala Cys Leu
      50             55             60

Leu Glu Leu Leu Arg Arg Thr Cys Arg Gly Trp Gly Arg Tyr His Pro
      65             70             75             80

Tyr Met Asp Pro Val Val Val
      85
```

<210> 109

<211> 279

<212> DNA

<213> Herpes Virus

<400> 109

```
atgtctctgc gcgcagtctg gcatctgggg cttttgggaa gcctcgtggg ggctgttctt 60
gccgccaccc atcggggacc tgcggccaac acaacggacc ccttaacgca cgccccagtg 120
tcccctcacc ccagccccct ggggggcttt gccgtcccc tcgtagtcgg tgggctgtgc 180
gccgtagtcc tgggggcggc atgtctgctt gagctcctgc gtcgtacgtg ccgcgggtgg 240
gggcgttacc atccctacat ggaccagtt gtcgtataa 279
```

<210> 110

<211> 92

<212> PRT

<213> Herpes Virus

<400> 110

```
Met Ser Leu Arg Ala Val Trp His Leu Gly Leu Leu Gly Ser Leu Val
  1             5             10             15

Gly Ala Val Leu Ala Ala Thr His Arg Gly Pro Ala Ala Asn Thr Thr
```

20	25	30
Asp Pro Leu Thr His Ala Pro Val Ser Pro His Pro Ser Pro Leu Gly		
35	40	45
Gly Phe Ala Val Pro Leu Val Val Gly Gly Leu Cys Ala Val Val Leu		
50	55	60
Gly Ala Ala Cys Leu Leu Glu Leu Leu Arg Arg Thr Cys Arg Gly Trp		
65	70	75
		80
Gly Arg Tyr His Pro Tyr Met Asp Pro Val Val Val		
85	90	

<210> 111
 <211> 1381
 <212> DNA
 <213> Herpes Virus

<400> 111
 caccgacgaa tcccctaagg gggagggggcc attttacgag gaggaggggt ataacaaagt 60
 ctgtctttaa aaagcagggg ttagggaggt gttcgggtcat aagcttcagc gcgaacgacc 120
 aactaccccg atcatcagtt atccttaagg tctcttttgt gtggtgcgtt ccggtatggg 180
 gggggctgcc gccaggttgg gggccgtgat tttgtttgtc gtcatagtgg gcctccatgg 240
 ggtccgcagc aaatatgcct tgggtgatgc ctctctcaag atggccgacc ccaatcgctt 300
 tcgcggcaaa gaccttccgg tccctggacca gctgaccgac cctccggggg tccggcgcg 360
 gtaccacatc caggcggggc taccggaccc gttccagccc cccagcctcc cgatcacggg 420
 ttactacgcc gtgttgaggc gcgcctgccg cagcgtgctc ctaaacgcac cgtcggaggc 480
 cccccagatt gtccgcgggg cctccgaaga cgtccggaaa caaccctaca acctgacct 540
 cgcttggttt cggatgggag gcaactgtgc tatccccatc acggtcatgg agtacaccga 600
 atgtctctac aacaagtctc tggggggcctg tcccatccga acgcagcccc gctggaacta 660
 ctatgacagc ttcagcgccg tcagcgagga taacctgggg ttcttgatgc acgccccgc 720
 gtttgagacc gccggcacgt acctgcggct cgtgaagata aacgactgga cggagattac 780
 acagtttctc ctggagcacc gagccaaggg ctctctgaag tacgcccctc cgctgcgcac 840
 ccccccgctc gctgcctct cccccaggc ctaccagcag ggggtgacgg tggacagcat 900
 cgggatgctg ccccgcttca tccccgagaa ccagcgcacc gtcgccgtat acagcttgaa 960
 gatcgccggg tggcacgggc ccaaggcccc atacacgagc acctgctgc ccccgagct 1020
 gtccgagacc cccaacgcca cgcagccaga actcgccccg gaagaccccg aggattcggc 1080
 cctcttgagg gaccccggtg ggacgggtgg gcgcgaaatc ccaccaaact ggcacatacc 1140
 gtcgatccag gacgcgcga cgccttacca tccccggcc accccgaaca acatgggct 1200
 gatcgccggc gcggtgggc gcagtctcct ggcagccctg gtcatttgcg gaattgtgta 1260
 ctggatgcgc cgccacactc aaaaagcccc aaagcgcata cgctcccc acatccggga 1320
 agacgaccag ccgtctctgc accagccctt gttttactag ataccccc ttaatgggtg 1380
 c 1381

<210> 112
 <211> 394
 <212> PRT
 <213> Herpes Virus

<400> 112
 Met Gly Gly Ala Ala Ala Arg Leu Gly Ala Val Ile Leu Phe Val Val
 1 5 10 15
 Ile Val Gly Leu His Gly Val Arg Ser Lys Tyr Ala Leu Val Asp Ala

20					25					30						
Ser	Leu	Lys	Met	Ala	Asp	Pro	Asn	Arg	Phe	Arg	Gly	Lys	Asp	Leu	Pro	
35					40					45						
Val	Leu	Asp	Gln	Leu	Thr	Asp	Pro	Pro	Gly	Val	Arg	Arg	Val	Tyr	His	
50					55					60						
Ile	Gln	Ala	Gly	Leu	Pro	Asp	Pro	Phe	Gln	Pro	Pro	Ser	Leu	Pro	Ile	
65					70					75					80	
Thr	Val	Tyr	Tyr	Ala	Val	Leu	Glu	Arg	Ala	Cys	Arg	Ser	Val	Leu	Leu	
85					90					95						
Asn	Ala	Pro	Ser	Glu	Ala	Pro	Gln	Ile	Val	Arg	Gly	Ala	Ser	Glu	Asp	
100					105					110						
Val	Arg	Lys	Gln	Pro	Tyr	Asn	Leu	Thr	Ile	Ala	Trp	Phe	Arg	Met	Gly	
115					120					125						
Gly	Asn	Cys	Ala	Ile	Pro	Ile	Thr	Val	Met	Glu	Tyr	Thr	Glu	Cys	Ser	
130					135					140						
Tyr	Asn	Lys	Ser	Leu	Gly	Ala	Cys	Pro	Ile	Arg	Thr	Gln	Pro	Arg	Trp	
145					150					155					160	
Asn	Tyr	Tyr	Asp	Ser	Phe	Ser	Ala	Val	Ser	Glu	Asp	Asn	Leu	Gly	Phe	
165					170					175						
Leu	Met	His	Ala	Pro	Ala	Phe	Glu	Thr	Ala	Gly	Thr	Tyr	Leu	Arg	Leu	
180					185					190						
Val	Lys	Ile	Asn	Asp	Trp	Thr	Glu	Ile	Thr	Gln	Phe	Ile	Leu	Glu	His	
195					200					205						
Arg	Ala	Lys	Gly	Ser	Cys	Lys	Tyr	Ala	Leu	Pro	Leu	Arg	Ile	Pro	Pro	
210					215					220						
Ser	Ala	Cys	Leu	Ser	Pro	Gln	Ala	Tyr	Gln	Gln	Gly	Val	Thr	Val	Asp	
225					230					235					240	
Ser	Ile	Gly	Met	Leu	Pro	Arg	Phe	Ile	Pro	Glu	Asn	Gln	Arg	Thr	Val	
245					250					255						
Ala	Val	Tyr	Ser	Leu	Lys	Ile	Ala	Gly	Trp	His	Gly	Pro	Lys	Ala	Pro	
260					265					270						
Tyr	Thr	Ser	Thr	Leu	Leu	Pro	Pro	Glu	Leu	Ser	Glu	Thr	Pro	Asn	Ala	
275					280					285						
Thr	Gln	Pro	Glu	Leu	Ala	Pro	Glu	Asp	Pro	Glu	Asp	Ser	Ala	Leu	Leu	
290					295					300						
Glu	Asp	Pro	Val	Gly	Thr	Val	Ala	Pro	Gln	Ile	Pro	Pro	Asn	Trp	His	
305					310					315					320	
Ile	Pro	Ser	Ile	Gln	Asp	Ala	Ala	Thr	Pro	Tyr	His	Pro	Pro	Ala	Thr	

	325		330		335
Pro Asn Asn Met Gly Leu Ile Ala Gly Ala Val Gly Gly Ser Leu Leu					
	340		345		350
Ala Ala Leu Val Ile Cys Gly Ile Val Tyr Trp Met Arg Arg His Thr					
	355		360		365
Gln Lys Ala Pro Lys Arg Ile Arg Leu Pro His Ile Arg Glu Asp Asp					
	370		375		380
Gln Pro Ser Ser His Gln Pro Leu Phe Tyr					
385		390			

<210> 113
 <211> 1092
 <212> DNA
 <213> Herpes Virus

<400> 113
 attttgtttg tcgtcatagt gggcctccat ggggtccgca gcaaatatgc cttggtggat 60
 gcctctctca agatggccga ccccaatcgc ttctcgcgca aagaccttcc ggtcctggac 120
 cagctgaccg accctccggg ggtccggcgc gtgtaccaca tccaggcggg cctaccggac 180
 ccgttccagc cccccagcct cccgatcacg gtttactacg ccgtgttgga gcgcgcctgc 240
 cgcagcgtgc tcctaaacgc accgtcggag gccccccaga ttgtccgcgg ggcctccgaa 300
 gacgtccgga aacaacccta caacctgacc atcgcttggg ttcggatggg aggcaactgt 360
 gctatcccca tcacgggtcat ggagtacacc gaatgctcct acaacaagtc tctggggggcc 420
 tgtcccatcc gaacgcagcc ccgctggaac tactatgaca gcttcagcgc cgtcagcgag 480
 gataacctgg ggttcctgat gcacgcccc gcgtttgaga ccgccggcac gtacctgcgg 540
 ctcgtgaaga taaacgactg gacggagatt acacagttta tcctggagca ccgagccaag 600
 ggctcctgta agtacgccct cccgctgcgc atccccccgt cagcctgcct ctccccccag 660
 gcctaccagc aggggggtgac ggtggacagc atcgggatgc tgccccgctt catccccgag 720
 aaccagcgca ccgtcgccgt atacagcttg aagatcgccg ggtggcacgg gcccaaggcc 780
 ccatacacga gcacctgct gccccggag ctgtccgaga cccccaacgc cacgcagcca 840
 gaactcgccc cggaagaccc cgaggattcg gccctcttgg aggaccccgt ggggacgggtg 900
 gcgccgcaaa tcccaccaa ctggcacata ccgtcgatcc aggacgccgc gacgccttac 960
 catcccccg ccaccccgaa caacatgggc ctgatcgccg gcgcggtggg cggcagtcctc 1020
 ctggcagccc tggtcatttg cggaattgtg tactggatgc gccgccacac tcaaaaagcc 1080
 ccaaagcgca ta 1092

<210> 114
 <211> 364
 <212> PRT
 <213> Herpes Virus

<400> 114
 Ile Leu Phe Val Val Ile Val Gly Leu His Gly Val Arg Ser Lys Tyr
 1 5 10 15
 Ala Leu Val Asp Ala Ser Leu Lys Met Ala Asp Pro Asn Arg Phe Arg
 20 25 30
 Gly Lys Asp Leu Pro Val Leu Asp Gln Leu Thr Asp Pro Pro Gly Val
 35 40 45

Arg Arg Val Tyr His Ile Gln Ala Gly Leu Pro Asp Pro Phe Gln Pro
 50 55 60

Pro Ser Leu Pro Ile Thr Val Tyr Tyr Ala Val Leu Glu Arg Ala Cys
 65 70 75 80

Arg Ser Val Leu Leu Asn Ala Pro Ser Glu Ala Pro Gln Ile Val Arg
 85 90 95

Gly Ala Ser Glu Asp Val Arg Lys Gln Pro Tyr Asn Leu Thr Ile Ala
 100 105 110

Trp Phe Arg Met Gly Gly Asn Cys Ala Ile Pro Ile Thr Val Met Glu
 115 120 125

Tyr Thr Glu Cys Ser Tyr Asn Lys Ser Leu Gly Ala Cys Pro Ile Arg
 130 135 140

Thr Gln Pro Arg Trp Asn Tyr Tyr Asp Ser Phe Ser Ala Val Ser Glu
 145 150 155 160

Asp Asn Leu Gly Phe Leu Met His Ala Pro Ala Phe Glu Thr Ala Gly
 165 170 175

Thr Tyr Leu Arg Leu Val Lys Ile Asn Asp Trp Thr Glu Ile Thr Gln
 180 185 190

Phe Ile Leu Glu His Arg Ala Lys Gly Ser Cys Lys Tyr Ala Leu Pro
 195 200 205

Leu Arg Ile Pro Pro Ser Ala Cys Leu Ser Pro Gln Ala Tyr Gln Gln
 210 215 220

Gly Val Thr Val Asp Ser Ile Gly Met Leu Pro Arg Phe Ile Pro Glu
 225 230 235 240

Asn Gln Arg Thr Val Ala Val Tyr Ser Leu Lys Ile Ala Gly Trp His
 245 250 255

Gly Pro Lys Ala Pro Tyr Thr Ser Thr Leu Leu Pro Pro Glu Leu Ser
 260 265 270

Glu Thr Pro Asn Ala Thr Gln Pro Glu Leu Ala Pro Glu Asp Pro Glu
 275 280 285

Asp Ser Ala Leu Leu Glu Asp Pro Val Gly Thr Val Ala Pro Gln Ile
 290 295 300

Pro Pro Asn Trp His Ile Pro Ser Ile Gln Asp Ala Ala Thr Pro Tyr
 305 310 315 320

His Pro Pro Ala Thr Pro Asn Asn Met Gly Leu Ile Ala Gly Ala Val
 325 330 335

Gly Gly Ser Leu Leu Ala Ala Leu Val Ile Cys Gly Ile Val Tyr Trp
 340 345 350

Met Arg Arg His Thr Gln Lys Ala Pro Lys Arg Ile
 355 360

<210> 115
 <211> 1185
 <212> DNA
 <213> Herpes Virus

<400> 115
 atgggggggg ctgccgccag gttggggggc gtgattttgt ttgtcgtcat agtgggcctc 60
 catgggggtcc gcagcaaata tgccttggtg gatgcctctc tcaagatggc cgaccccaat 120
 cgcttttcgcg gcaaagacct tccggtcctg gaccagctga ccgacctcc ggggggtccg 180
 cgcggtgtacc acatccaggc gggcctaccg gaccggttcc agccccccag cctcccgatc 240
 acgggtttact acgccgtggt ggagcgcgcc tgccgcagcg tgctcctaaa cgcaccgtcg 300
 gaggcccccc agattgtccg cggggcctcc gaagacgtcc ggaaacaacc ctacaacctg 360
 accatcgctt ggtttcggat gggaggcaac tgtgctatcc ccatcacggt catggagtac 420
 accgaatgct cctacaacaa gtctctgggg gcctgtccca tccgaacgca gccccgctgg 480
 aactactatg acagcttcag cgcgcgtcagc gaggataacc tgggggttcct gatgcacgcc 540
 cccgcgtttg agaccgcggg cacgtacctg cggctcgtga agataaacga ctggacggag 600
 attacacagt ttatcctgga gcaccgagcc aagggtcctt gtaagtacgc cctcccgtcg 660
 cgcacccccc cgtcagcctg cctctccccc caggcctacc agcagggggg gacgggtggac 720
 agcatcgga tgctgccccg cttcatcccc gagaaccagc gcaccgtcgc cgtatacagc 780
 ttgaagatcg ccgggtggca cgggcccagg gcccataca cgagcacctt gctgcccccg 840
 gagctgtccg agacccccaa cgccacgcag ccagaactcg ccccggaaga ccccgaggat 900
 tcggccctct tggaggaccc cgtggggacg gtggcgccgc aaatcccacc aaactggcac 960
 ataccgtcga tccaggacgc cgcgacgcct taccatcccc cggccacccc gaacaacatg 1020
 ggcctgatcg ccggcgcggt gggcggcagt ctcttggcag ccctgggtcat ttgcggaatt 1080
 gtgtactgga tgcgcgcga cactcaaaaa gccccaaagc gcatacgctt cccccacatc 1140
 cggaagacg accagccgtc ctgcgaccag cccttgtttt actag 1185

<210> 116
 <211> 394
 <212> PRT
 <213> Herpes Virus

<400> 116
 Met Gly Gly Ala Ala Arg Leu Gly Ala Val Ile Leu Phe Val Val
 1 5 10 15
 Ile Val Gly Leu His Gly Val Arg Ser Lys Tyr Ala Leu Val Asp Ala
 20 25 30
 Ser Leu Lys Met Ala Asp Pro Asn Arg Phe Arg Gly Lys Asp Leu Pro
 35 40 45
 Val Leu Asp Gln Leu Thr Asp Pro Pro Gly Val Arg Arg Val Tyr His
 50 55 60
 Ile Gln Ala Gly Leu Pro Asp Pro Phe Gln Pro Pro Ser Leu Pro Ile
 65 70 75 80
 Thr Val Tyr Tyr Ala Val Leu Glu Arg Ala Cys Arg Ser Val Leu Leu
 85 90 95
 Asn Ala Pro Ser Glu Ala Pro Gln Ile Val Arg Gly Ala Ser Glu Asp

100					105					110						
Val	Arg	Lys	Gln	Pro	Tyr	Asn	Leu	Thr	Ile	Ala	Trp	Phe	Arg	Met	Gly	
115					120					125						
Gly	Asn	Cys	Ala	Ile	Pro	Ile	Thr	Val	Met	Glu	Tyr	Thr	Glu	Cys	Ser	
130					135					140						
Tyr	Asn	Lys	Ser	Leu	Gly	Ala	Cys	Pro	Ile	Arg	Thr	Gln	Pro	Arg	Trp	
145					150					155					160	
Asn	Tyr	Tyr	Asp	Ser	Phe	Ser	Ala	Val	Ser	Glu	Asp	Asn	Leu	Gly	Phe	
165					170					175						
Leu	Met	His	Ala	Pro	Ala	Phe	Glu	Thr	Ala	Gly	Thr	Tyr	Leu	Arg	Leu	
180					185					190						
Val	Lys	Ile	Asn	Asp	Trp	Thr	Glu	Ile	Thr	Gln	Phe	Ile	Leu	Glu	His	
195					200					205						
Arg	Ala	Lys	Gly	Ser	Cys	Lys	Tyr	Ala	Leu	Pro	Leu	Arg	Ile	Pro	Pro	
210					215					220						
Ser	Ala	Cys	Leu	Ser	Pro	Gln	Ala	Tyr	Gln	Gln	Gly	Val	Thr	Val	Asp	
225					230					235					240	
Ser	Ile	Gly	Met	Leu	Pro	Arg	Phe	Ile	Pro	Glu	Asn	Gln	Arg	Thr	Val	
245					250					255						
Ala	Val	Tyr	Ser	Leu	Lys	Ile	Ala	Gly	Trp	His	Gly	Pro	Lys	Ala	Pro	
260					265					270						
Tyr	Thr	Ser	Thr	Leu	Leu	Pro	Pro	Glu	Leu	Ser	Glu	Thr	Pro	Asn	Ala	
275					280					285						
Thr	Gln	Pro	Glu	Leu	Ala	Pro	Glu	Asp	Pro	Glu	Asp	Ser	Ala	Leu	Leu	
290					295					300						
Glu	Asp	Pro	Val	Gly	Thr	Val	Ala	Pro	Gln	Ile	Pro	Pro	Asn	Trp	His	
305					310					315					320	
Ile	Pro	Ser	Ile	Gln	Asp	Ala	Ala	Thr	Pro	Tyr	His	Pro	Pro	Ala	Thr	
325					330					335						
Pro	Asn	Asn	Met	Gly	Leu	Ile	Ala	Gly	Ala	Val	Gly	Gly	Ser	Leu	Leu	
340					345					350						
Ala	Ala	Leu	Val	Ile	Cys	Gly	Ile	Val	Tyr	Trp	Met	Arg	Arg	His	Thr	
355					360					365						
Gln	Lys	Ala	Pro	Lys	Arg	Ile	Arg	Leu	Pro	His	Ile	Arg	Glu	Asp	Asp	
370					375					380						
Gln	Pro	Ser	Ser	His	Gln	Pro	Leu	Phe	Tyr							
385					390											